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# SURFACE AREA TABLES

A280.3  
F762

FOR USE IN DETERMINING  
PACKAGING COSTS

UNITED STATES  
DEPARTMENT OF AGRICULTURE  
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BOOK NUMBER A280.3  
956668 F762



# S U R F A C E   A R E A   T A B L E S

For Use in Determining Packaging Costs

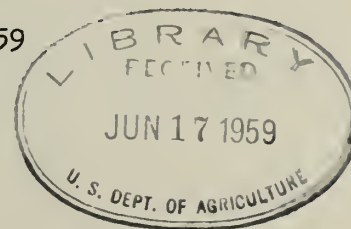
Developed at

Forest Products Laboratory,<sup>1</sup> Forest Service  
U. S. Department of Agriculture

In cooperation with

Air Materiel Command  
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<sup>1</sup>Maintained at Madison, Wls., in cooperation with the University of Wisconsin.

" 1/4 " 1/2 " 3/4 " " 1/4 " 1/2 " 3/4 " 2 " 2 1/4 " 2 1/2 " 2 3/4 " 3 " 3 1/2 " 4 " 4 1/2 " 5 " 5 1/2 " 6 " 6 1/2 " 7 " 7 1/2 " 8 " 8 1/2 "



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INSTRUCTIONS

These tables show the "Package Surface Area", in square inches, of an item or group of items where the length, width, and depth dimensions are each less than 48 inches. The following formula has been used to compute the area values:

$$A = 2(LW + LD + WD)$$

where A = packaging surface area, in square inches  
 L = overall length, in inches, of item or group of items  
 W = overall width, in inches, of item or group of items  
 D = overall depth, in inches, of item or group of items.

Instructions for obtaining the package surface area by use of the tables are as follows:

1. Determine the overall length, width, and depth of the item or group of items.
2. The desired surface area value will be found on the table corresponding to the smallest of the three dimensions. Locate this table by referring to the numbers on the tabs along the edges of the book of tables. Open the book of tables at the appropriate tab.
3. Along the top line of this table, locate the number that most nearly matches the largest dimension.
4. Along the left edge of this table, locate the number that most nearly matches the remaining dimension.
5. At the intersection of the vertical column and horizontal line respectively containing the two latter dimensions, find the appropriate surface area. It will be noted that the body of the table is divided by heavy black lines into regions, each of which is identified in one or more places by an open-faced numeral. These open-faced numerals correspond to the numbers designating the item surface area categories in the packaging cost tables. Therefore, in using the surface area tables in conjunction with the packaging cost tables, it will be necessary only to use the appropriate region numeral (open faced) rather than the exact surface area value in each instance.

1/4 1/2 3/4 1 1/4 1/2 3/4 2 1/4 1/2 3/4 2 3 1/2 4 1/2 5 5 1/2 6 1 1/2 7 1 1/2 8 8 1/2

INCHES	1/4	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14
1/4	0.4	0.6	0.9	1.1	1.4	1.6	1.9	2.1	2.4	2.6	2.9	3.1	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1
1/2		1.0	1.4	1.8	2.1	2.5	2.9	3.3	3.6	4.0	4.4	4.8	5.5	6.3	7.0	7.8	8.5	9.3	10.0	10.8	11.5	12.3	13.0	13.8	14.5	15.3	16.0	16.8	17.5	18.3	19.0	19.8	20.5	21.3
3/4			1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.4	5.9	6.4	7.4	8.4	9.4	10.4	11.4	12.4	13.4	14.4	15.4	16.4	17.4	18.4	19.4	20.4	21.4	22.4	23.4	24.4	25.4	26.4	27.4	28.4
1				3.0	3.6	4.3	4.9	5.5	6.1	6.8	7.4	8.0	9.3	10.5	11.8	13.0	14.3	15.5	16.8	18.0	19.3	20.5	21.8	23.0	24.3	25.5	26.8	28.0	29.3	30.5	31.8	33.0	34.3	35.5
1-1/4					4.4	5.1	5.9	6.6	7.4	8.1	8.9	9.6	11.1	12.6	14.1	15.6	17.1	18.6	20.1	21.6	23.1	24.6	26.1	27.6	29.1	30.6	32.1	33.6	35.1	36.6	38.1	39.6	41.1	42.6
1-1/2						6.0	6.9	7.8	8.6	9.5	10.4	11.3	13.0	14.8	16.5	18.3	20.0	21.8	23.5	25.3	27.0	28.8	30.5	32.3	34.0	35.8	37.5	39.3	41.0	42.8	44.5	46.3	48.0	49.8
1-3/4							7.9	8.9	9.9	10.9	11.9	12.9	14.9	16.9	18.9	20.9	22.9	24.9	26.9	28.9	30.9	32.9	34.9	36.9	38.9	40.9	42.9	44.9	46.9	48.9	50.9	52.9	54.9	56.9
2								10.0	11.1	12.3	13.4	14.5	16.8	19.0	21.3	23.5	25.8	28.0	30.3	32.5	34.8	37.0	39.3	41.5	43.8	46.0	48.3	50.5	52.8	55.0	57.3	59.5	61.8	64.0
2-1/4									12.4	13.6	14.9	16.1	18.6	21.1	23.6	26.1	28.6	31.1	33.6	36.1	38.6	41.1	43.6	46.1	48.6	51.1	53.6	56.1	58.6	61.1	63.6	66.1	68.6	71.1
2-1/2										15.0	16.4	17.8	20.5	23.4	26.0	28.8	31.5	34.3	37.0	39.8	42.5	45.3	48.0	50.8	53.5	56.3	59.0	61.8	64.5	67.3	70.0	72.8	75.5	78.3
2-3/4											17.9	19.4	22.4	25.4	28.4	31.4	34.4	37.4	40.4	43.4	46.4	49.4	52.4	55.4	58.4	61.4	64.4	67.4	70.4	73.4	76.4	79.4	82.4	85.4
3												21.0	24.3	27.5	30.8	34.0	37.3	40.5	43.8	47.0	50.3	53.5	56.8	60.0	63.3	66.5	69.8	73.0	76.3	79.5	82.8	86.0	89.3	92.5
3-1/2													28.0	31.8	35.5	39.3	43.0	46.8	50.5	54.3	58.0	61.8	65.5	69.3	73.0	76.8	80.5	84.3	88.0	91.8	95.5	99.3	103.0	106.8
4														36.0	40.3	44.5	48.8	53.0	57.3	61.5	65.8	70.0	74.3	78.5	82.8	87.0	91.3	95.5	99.8	104.0	108.3	112.5	116.8	121.0
4-1/2															45.0	49.8	54.5	59.3	64.0	68.8	73.5	78.3	83.0	87.8	92.5	97.3	102.0	106.8	111.5	116.3	121.0	125.8	130.5	135.3
5																55.0	60.3	65.5	70.8	76.0	81.3	86.5	91.8	97.0	102.3	107.5	112.8	118.0	123.3	128.5	133.8	139.0	144.3	149.5
5-1/2																	66.0	71.5	77.0	82.3	87.8	93.0	98.5	103.8	109.3	114.5	119.8	125.0	130.3	135.5	140.8	146.0	151.3	156.5
6																		78.0	84.3	90.5	96.8	103.0	109.3	115.5	121.8	128.0	134.3	140.5	146.8	153.0	159.3	165.5	171.8	178.0
6-1/2																			91.0	97.8	104.5	111.3	118.0	124.8	131.5	138.3	145.0	151.8	158.5	165.3	172.0	178.8	185.5	192.3
7																				105.0	112.3	119.5	126.8	134.0	141.3	148.5	155.8	163.0	170.3	177.5	184.8	192.0	199.3	206.5
7-1/2																					120.0	127.8	135.5	143.3	151.0	158.8	166.5	174.3	182.0	189.8	197.5	205.3	213.0	220.8
8																						136.0	144.3	152.5	160.8	169.0	177.3	185.5	193.8	202.0	210.3	218.5	226.8	235.0
8-1/2																							153.0	161.8	170.5	179.3	188.0	196.8	205.5	214.3	223.0	231.8	240.5	249.3
9																								171.0	180.3	189.5	198.8	208.0	217.3	226.5	235.8	245.0	254.3	263.5
9-1/2																									190.0	199.8	209.5	219.3	229.0	238.8	248.5	258.3	268.0	277.8
10																										210.0	220.3	230.5	240.8	251.0	261.3	271.5	281.8	292.0
10-1/2																											231.0	241.8	252.5	263.3	274.0	284.8	295.5	306.3
11																												253.0	264.3	275.5	286.8	298.0	309.3	320.5
11-1/2																													276.0	287.8	299.5	311.3	323.0	334.8
12																														300.0	312.3	324.5	336.8	349.0
12-1/2																															325.0	337.8	350.5	363.3
13																																351.0	364.3	377.5
13-1/2																																	378.0	391.8
14																																		406.0

14-1/2	5	16	17	18	9	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	PAGES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
14.6	15.1	16.1	17.1	18.1	19.1	20.1	21.1	22.1	23.1	24.1	25.1	26.1	27.1	28.1	29.1	30.1	31.1	32.1	33.1	34.1	35.1	36.1	37.1	38.1	39.1	40.1	41.1	42.1	43.1	44.1	45.1	46.1	47.1	48.1	1/4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
22.0	22.8	23.3	23.8	24.3	24.8	25.3	25.8	26.3	26.8	27.3	27.8	28.3	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.3	35.8	36.3	36.8	37.3	37.8	38.3	38.8	39.3	39.8	1/2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
29.4	30.4	31.4	32.4	33.4	34.4	35.4	36.4	37.4	38.4	39.4	40.4	41.4	42.4	43.4	44.4	45.4	46.4	47.4	48.4	49.4	50.4	51.4	52.4	53.4	54.4	55.4	56.4	57.4	58.4	59.4	60.4	61.4	62.4	63.4	3/4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
36.8	38.0	39.2	40.4	41.6	42.8	44.0	45.2	46.4	47.6	48.8	50.0	51.2	52.4	53.6	54.8	56.0	57.2	58.4	59.6	60.8	62.0	63.2	64.4	65.6	66.8	68.0	69.2	70.4	71.6	72.8	74.0	75.2	76.4	77.6	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
44.1	45.6	47.1	48.6	50.1	51.6	53.1	54.6	56.1	57.6	59.1	60.6	62.1	63.6	65.1	66.6	68.1	69.6	71.1	72.6	74.1	75.6	77.1	78.6	80.1	81.6	83.1	84.6	86.1	87.6	89.1	90.6	92.1	93.6	95.1	1/4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
51.5	53.3	55.0	56.8	58.5	60.3	62.0	63.8	65.5	67.3	69.0	70.8	72.5	74.3	76.0	77.8	79.5	81.3	83.0	84.8	86.5	88.3	90.0	91.8	93.5	95.3	97.0	98.8	100.5	102.3	104.0	105.8	107.5	109.3	111.0	112.8	1/4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
58.9	60.9	62.9	64.9	66.9	68.9	70.9	72.9	74.9	76.9	78.9	80.9	82.9	84.9	86.9	88.9	90.9	92.9	94.9	96.9	98.9	100.9	102.9	104.9	106.9	108.9	110.9	112.9	114.9	116.9	118.9	120.9	122.9	124.9	126.9	128.9	1/4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
66.3	68.3	70.3	72.3	74.3	76.3	78.3	80.3	82.3	84.3	86.3	88.3	90.3	92.3	94.3	96.3	98.3	100.3	102.3	104.3	106.3	108.3	110.3	112.3	114.3	116.3	118.3	120.3	122.3	124.3	126.3	128.3	130.3	132.3	134.3	136.3	138.3	140.3	142.3	144.3	146.3	148.3	150.3	152.3	154.3	156.3	158.3	160.3	162.3	164.3	166.3	168.3	170.3	172.3	174.3	176.3	178.3	180.3	182.3	184.3	186.3	188.3	190.3	192.3	194.3	196.3	198.3	200.3	202.3	204.3	206.3	208.3	210.3	212.3	214.3	216.3	218.3	220.3	222.3	224.3	226.3	228.3	230.3	232.3	234.3	236.3	238.3	240.3	242.3	244.3	246.3	248.3	250.3	252.3	254.3	256.3	258.3	260.3	262.3	264.3	266.3	268.3	270.3	272.3	274.3	276.3	278.3	280.3	282.3	284.3	286.3	288.3	290.3	292.3	294.3	296.3	298.3	300.3	302.3	304.3	306.3	308.3	310.3	312.3	314.3	316.3	318.3	320.3	322.3	324.3	326.3	328.3	330.3	332.3	334.3	336.3	338.3	340.3	342.3	344.3	346.3	348.3	350.3	352.3	354.3	356.3	358.3	360.3	362.3	364.3	366.3	368.3	370.3	372.3	374.3	376.3	378.3	380.3	382.3	384.3	386.3	388.3	390.3	392.3	394.3	396.3	398.3	400.3	402.3	404.3	406.3	408.3	410.3	412.3	414.3	416.3	418.3	420.3	422.3	424.3	426.3	428.3	430.3	432.3	434.3	436.3	438.3	440.3	442.3	444.3	446.3	448.3	450.3	452.3	454.3	456.3	458.3	460.3	462.3	464.3	466.3	468.3	470.3	472.3	474.3	476.3	478.3	480.3	482.3	484.3	486.3	488.3	490.3	492.3	494.3	496.3	498.3	500.3	502.3	504.3	506.3	508.3	510.3	512.3	514.3	516.3	518.3	520.3	522.3	524.3	526.3	528.3	530.3	532.3	534.3	536.3	538.3	540.3	542.3	544.3	546.3	548.3	550.3	552.3	554.3	556.3	558.3	560.3	562.3	564.3	566.3	568.3	570.3	572.3	574.3	576.3	578.3	580.3	582.3	584.3	586.3	588.3	590.3	592.3	594.3	596.3	598.3	600.3	602.3	604.3	606.3	608.3	610.3	612.3	614.3	616.3	618.3	620.3	622.3	624.3	626.3	628.3	630.3	632.3	634.3	636.3	638.3	640.3	642.3	644.3	646.3	648.3	650.3	652.3	654.3	656.3	658.3	660.3	662.3	664.3	666.3	668.3	670.3	672.3	674.3	676.3	678.3	680.3	682.3	684.3	686.3	688.3	690.3	692.3	694.3	696.3	698.3	700.3	702.3	704.3	706.3	708.3	710.3	712.3	714.3	716.3	718.3	720.3	722.3	724.3	726.3	728.3	730.3	732.3	734.3	736.3	738.3	740.3	742.3	744.3	746.3	748.3	750.3	752.3	754.3	756.3	758.3	760.3	762.3	764.3	766.3	768.3	770.3	772.3	774.3	776.3	778.3	780.3	782.3	784.3	786.3	788.3	790.3	792.3	794.3	796.3	798.3	800.3	802.3	804.3	806.3	808.3	810.3	812.3	814.3	816.3	818.3	820.3	822.3	824.3	826.3	828.3	830.3	832.3	834.3	836.3	838.3	840.3	842.3	844.3	846.3	848.3	850.3	852.3	854.3	856.3	858.3	860.3	862.3	864.3	866.3	868.3	870.3	872.3	874.3	876.3	878.3	880.3	882.3	884.3	886.3	888.3	890.3	892.3	894.3	896.3	898.3	900.3	902.3	904.3	906.3	908.3	910.3	912.3	914.3	916.3	918.3	920.3	922.3	924.3	926.3	928.3	930.3	932.3	934.3	936.3	938.3	940.3	942.3	944.3	946.3	948.3	950.3	952.3	954.3	956.3	958.3	960.3	962.3	964.3	966.3	968.3	970.3	972.3	974.3	976.3	978.3	980.3	982.3	984.3	986.3	988.3	990.3	992.3	994.3	996.3	998.3	1000.3	1002.3	1004.3	1006.3	1008.3	1010.3	1012.3	1014.3	1016.3	1018.3	1020.3	1022.3	1024.3	1026.3	1028.3	1030.3	1032.3	1034.3	1036.3	1038.3	1040.3	1042.3	1044.3	1046.3	1048.3	1050.3	1052.3	1054.3	1056.3	1058.3	1060.3	1062.3	1064.3	1066.3	1068.3	1070.3	1072.3	1074.3	1076.3	1078.3	1080.3	1082.3	1084.3	1086.3	1088.3	1090.3	1092.3	1094.3	1096.3	1098.3	1100.3	1102.3	1104.3	1106.3	1108.3	1110.3	1112.3	1114.3	1116.3	1118.3	1120.3	1122.3	1124.3	1126.3	1128.3	1130.3	1132.3	1134.3	1136.3	1138.3	1140.3	1142.3	1144.3	1146.3	1148.3	1150.3	1152.3	1154.3	1156.3	1158.3	1160.3	1162.3	1164.3	1166.3	1168.3	1170.3	1172.3	1174.3	1176.3	1178.3	1180.3	1182.3	1184.3	1186.3	1188.3	1190.3	1192.3	1194.3	1196.3	1198.3	1200.3	1202.3	1204.3	1206.3	1208.3	1210.3	1212.3	1214.3	1216.3	1218.3	1220.3	1222.3	1224.3	1226.3	1228.3	1230.3	1232.3	1234.3	1236.3	1238.3	1240.3	1242.3	1244.3	1246.3	1248.3	1250.3	1252.3	1254.3	1256.3	1258.3	1260.3	1262.3	1264.3	1266.3	1268.3	1270.3	1272.3	1274.3	1276.3	1278.3	1280.3	1282.3	1284.3	1286.3	1288.3	1290.3	1292.3	1294.3	1296.3	1298.3	1300.3	1302.3	1304.3	1306.3	1308.3	1310.3	1312.3	1314.3	1316.3	1318.3	1320.3	1322.3	1324.3	1326.3	1328.3	1330.3	1332.3	1334.3	1336.3	1338.3	1340.3	1342.3	1344.3	1346.3	1348.3	1350.3	1352.3	1354.3	1356.3	1358.3	1360.3	1362.3	1364.3	1366.3	1368.3	1370.3	1372.3	1374.3	1376.3	1378.3	1380.3	1382.3	1384.3	1386.3	1388.3	1390.3	1392.3	1394.3	1396.3	1398.3	1400.3	1402.3	1404.3	1406.3	1408.3	1410.3	1412.3	1414.3	1416.3	1418.3	1420.3	1422.3	1424.3	1426.3	1428.3	1430.3	1432.3	1434.3	1436.3	1438.3	1440.3	1442.3	1444.3	1446.3	1448.3	1450.3	1452.3	1454.3	1456.3	1458.3	1460.3	1462.3	1464.3	1466.3	1468.3	1470.3	1472.3	1474.3	1476.3	1478.3	1480.3	1482.3	1484.3	1486.3	1488.3	1490.3	1492.3	1494.3	1496.3	1498.3	1500.3	1502.3	1504.3	1506.3	1508.3	1510.3	1512.3	1514.3	1516.3	1518.3	1520.3	1522.3	1524.3	1526.3	1528.3	1530.3	1532.3	1534.3	1536.3	1538.3	1540.3	1542.3	1544.3	1546.3	1548.3	1550.3	1552.3	1554.3	1556.3	1558.3	1560.3	1562.3	1564.3	1566.3	1568.3	1570.3	1572.3	1574.3	1576.3	1578.3	1580.3	1582.3	1584.3	1586.3	1588.3	1590.3	1592.3	1594.3	1596.3	1598.3	1600.3	1602.3	1604.3	1606.3	1608.3	1610.3	1612.3	1614.3	1616.3	1618.3	1620.3	1622.3	1624.3	1626.3	1628.3	1630.3	1632.3	1634.3	1636.3	1638.3	1640.3	1642.3	1644.3	1646.3	1648.3	1650.3	1652.3	1654.3	1656.3	1658.3	1660.3	1662.3	1664.3	1666.3	1668.3	1670.3	1672.3	1674.3	1676.3	1678.3	1680.3	1682.3	1684.3	1686.3	1688.3	1690.3	1692.3	1694.3	1696.3	1698.3	1700.3	1702.3	1704.3	1706.3	1708.3	1710.3	1712.3	1714.3	1716.3	1718.3	1720.3	1722.3	1724.3	1726.3	1728.3	1730.3	1732.3	1734.3	1736.3	1738.3	1740.3	1742.3	1744.3	1746.3	1748.3	1750.3	1752.3	1754.3	1756.3	1758.3	1760.3	1762.3	1764.3	1766.3	1768.3	1770.3	1772.3	1774.3	1776.3	1778.3	1780.3	1782.3	1784.3	1786.3	1788.3	1790.3	1792.3	1794.3	1796.3	1798.3	1800.3	1802.3	1804.3	1806.3	1808.3	1810.3	1812.3	1814.3	1816.3	1818.3	1820.3	1822.3	1824.3	1826.3	1828.3	1830.3	1832.3	1834.3	1836.3	1838.3	1840.3	1842.3	1844.3	1846.3	1848.3	1850.3	1852.3	1854.3	1856.3	1858.3	1860.3	1862.3	1864.3	1866.3	1868.3	1870.3	1872.3	1874.3	1876.3	1878.3	1880.3	1882.3	1884.3	1886.3	1888.3	1890.3	1892.3	1894.3	1896.3	1898.3	1900.3	1902.3	1904.3	1906.3	1908.3	1910.3	1912.3	1914.3	1916.3	1918.3	1920.3	1922.3	1924.3





INDEX	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
14-1/2	433.0	440.8	479.3	508.8	538.3	567.8	597.3	626.8	656.3	685.8	715.3	744.8	774.3	803.8	833.3	862.8	892.3	921.8	951.3	980.8	1,010	1,040	1,069	1,099	1,128	1,158	1,187	1,217	1,246	1,276	1,305	1,335	1,364	1,394	1,423		
15		465.0	503.5	526.0	556.5	587.0	617.5	648.0	678.5	709.0	739.5	770.0	800.5	831.0	861.5	892.0	922.5	953.0	983.5	1,014	1,045	1,075	1,106	1,136	1,167	1,197	1,228	1,258	1,289	1,319	1,350	1,380	1,411	1,441	1,472		
16			508.0	560.5	593.0	625.5	658.0	690.5	723.0	755.5	788.0	820.5	853.0	885.5	918.0	950.5	983.0	1,016	1,048	1,081	1,113	1,146	1,178	1,211	1,243	1,276	1,308	1,341	1,373	1,406	1,438	1,471	1,503	1,536	1,568		
17				595.0	629.5	664.0	698.5	733.0	767.5	802.0	836.5	871.0	905.5	940.0	974.5	1,009	1,044	1,078	1,113	1,147	1,182	1,216	1,251	1,285	1,320	1,354	1,389	1,423	1,458	1,492	1,527	1,561	1,596	1,630	1,665		
18					666.0	702.5	739.0	775.5	812.0	848.5	885.0	921.5	958.0	994.5	1,031	1,068	1,104	1,141	1,177	1,214	1,250	1,287	1,323	1,360	1,396	1,433	1,469	1,506	1,542	1,579	1,615	1,652	1,688	1,725	1,761		
19						711.0	749.5	787.0	824.5	862.0	899.5	937.0	974.5	1,012	1,050	1,087	1,125	1,162	1,200	1,237	1,275	1,312	1,350	1,387	1,425	1,462	1,500	1,537	1,575	1,612	1,650	1,687	1,725	1,762	1,800		
20							800.0	860.5	901.0	941.5	982.0	1,023	1,063	1,104	1,144	1,185	1,225	1,266	1,306	1,347	1,387	1,428	1,468	1,509	1,549	1,590	1,630	1,671	1,711	1,752	1,792	1,833	1,873	1,914	1,954		
21								901.0	941.5	982.0	1,023	1,063	1,104	1,144	1,185	1,225	1,266	1,306	1,347	1,387	1,428	1,468	1,509	1,549	1,590	1,630	1,671	1,711	1,752	1,792	1,833	1,873	1,914	1,954	1,995		
22									990.0	1,033	1,079	1,124	1,168	1,213	1,257	1,302	1,346	1,391	1,433	1,480	1,524	1,569	1,613	1,658	1,702	1,747	1,791	1,836	1,880	1,925	1,969	2,014	2,058	2,103	2,147		
23										1,081	1,128	1,174	1,221	1,267	1,314	1,360	1,407	1,453	1,500	1,546	1,593	1,639	1,686	1,732	1,779	1,825	1,872	1,918	1,965	2,011	2,058	2,104	2,151	2,197	2,244		
24											1,176	1,225	1,273	1,322	1,370	1,419	1,467	1,516	1,564	1,613	1,661	1,710	1,758	1,807	1,855	1,904	1,952	2,001	2,049	2,098	2,146	2,195	2,243	2,292	2,340		
25												1,275	1,326	1,376	1,427	1,477	1,528	1,578	1,629	1,679	1,730	1,780	1,831	1,881	1,932	1,982	2,033	2,083	2,134	2,184	2,235	2,285	2,336	2,386	2,437		
26													1,378	1,431	1,483	1,536	1,588	1,641	1,693	1,746	1,798	1,851	1,903	1,956	2,008	2,061	2,113	2,166	2,218	2,271	2,323	2,376	2,428	2,481	2,533		
27														1,485	1,540	1,594	1,649	1,703	1,758	1,812	1,867	1,921	1,976	2,030	2,085	2,139	2,194	2,248	2,303	2,357	2,412	2,466	2,521	2,575	2,630		
28															1,596	1,653	1,709	1,766	1,822	1,879	1,935	1,992	2,048	2,105	2,161	2,218	2,274	2,331	2,387	2,444	2,500	2,557	2,613	2,670	2,726		
29																1,711	1,770	1,828	1,887	1,945	2,004	2,062	2,121	2,179	2,238	2,296	2,355	2,413	2,472	2,530	2,589	2,647	2,706	2,764	2,823		
30																	1,830	1,891	1,951	2,012	2,072	2,133	2,193	2,254	2,314	2,375	2,435	2,496	2,556	2,617	2,677	2,738	2,798	2,859	2,919		
31																		1,953	2,016	2,078	2,141	2,203	2,266	2,328	2,391	2,453	2,516	2,578	2,641	2,703	2,766	2,828	2,891	2,953	3,016		
32																			2,080	2,145	2,209	2,274	2,338	2,403	2,467	2,532	2,596	2,661	2,725	2,790	2,854	2,919	2,983	3,048	3,112		
33																				2,211	2,278	2,344	2,411	2,477	2,544	2,610	2,677	2,743	2,810	2,876	2,943	3,009	3,076	3,142	3,209		
34																					2,346	2,413	2,483	2,552	2,620	2,689	2,757	2,826	2,894	2,963	3,031	3,100	3,168	3,237	3,305		
35																						2,485	2,556	2,627	2,707	2,788	2,868	2,949	3,029	3,109	3,189	3,269	3,349	3,429	3,509		
36																							2,628	2,701	2,773	2,846	2,918	2,991	3,063	3,136	3,208	3,281	3,353	3,426	3,498		
37																								2,775	2,850	2,924	2,999	3,073	3,148	3,222	3,297	3,371	3,446	3,520	3,595		
38																									2,926	3,003	3,079	3,156	3,232	3,309	3,385	3,462	3,538	3,614	3,691	3,767	
39																										3,081	3,160	3,237	3,314	3,391	3,477	3,558	3,631	3,709	3,788	3,867	
40																											3,240	3,321	3,401	3,480	3,560	3,643	3,723	3,804	3,884	3,964	
41																												3,403	3,486	3,568	3,651	3,733	3,816	3,898	3,981	4,061	
42																													3,570	3,655	3,739	3,824	3,908	3,992	4,076	4,160	4,244
43																														3,731	3,818	3,904	3,990	4,076	4,162	4,248	4,334
44																															3,892	3,981	4,069	4,157	4,245	4,333	
45																																4,053	4,144	4,234	4,324	4,414	
46																																	4,215	4,307	4,398	4,489	
47																																		4,376	4,469	4,561	
48																																			4,537	4,630	

$\frac{1}{2}$   $\frac{3}{4}$   $1$   $1\frac{1}{4}$   $1\frac{1}{2}$   $1\frac{3}{4}$   $2$   $2\frac{1}{4}$   $2\frac{1}{2}$   $3$   $3\frac{1}{2}$   $4$   $4\frac{1}{2}$   $5$   $5\frac{1}{2}$   $6$   $6\frac{1}{2}$   $7$   $7\frac{1}{2}$   $8$   $8$

INCHES	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	
1/2	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	
3/4		2.6	3.1	3.9	4.5	5.1	5.8	6.4	7.0	7.6	8.3	9.5	10.8	12.0	13.3	14.5	15.8	17.0	18.3	19.5	20.8	22.0	23.3	24.5	25.8	27.0	28.3	29.5	30.8	32.0	33.3	34.5	35.8	
1			4.0	4.8	5.5	6.3	7.0	7.8	8.5	9.3	10.0	11.5	13.0	14.5	16.0	17.5	19.0	20.5	22.0	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	40.0	41.5	43.0	
1-1/4				5.6	6.5	7.4	8.3	9.1	10.0	10.9	11.8	13.5	15.3	17.0	18.8	20.5	22.3	24.0	25.8	27.5	29.3	31.0	32.8	34.5	36.3	38.0	39.8	41.5	43.3	45.0	46.8	48.5	50.3	
1-1/2					7.5	8.5	9.5	10.5	11.5	12.5	13.5	15.5	17.5	19.5	21.5	23.5	25.5	27.5	29.5	31.5	33.5	35.5	37.5	39.5	41.5	43.5	45.5	47.5	49.5	51.5	53.5	55.5	57.5	
1-3/4						9.6	10.8	11.9	13.0	14.1	15.3	17.5	19.8	22.0	24.3	26.5	28.8	31.0	33.3	35.5	37.8	40.0	42.3	44.5	46.8	49.0	51.3	53.5	55.8	58.0	60.3	62.5	64.8	
2							12.0	13.3	14.5	15.8	17.0	19.5	22.0	24.5	27.0	29.5	32.0	34.5	37.0	39.5	42.0	44.5	47.0	49.5	52.0	54.5	57.0	59.5	62.0	64.5	67.0	69.5	72.0	
2-1/4								14.6	16.0	17.4	18.8	21.5	24.3	27.0	29.8	32.5	35.3	38.0	40.8	43.5	46.3	49.0	51.8	54.5	57.3	60.0	62.8	65.5	68.3	71.0	73.8	76.5	79.3	
2-1/2									17.5	19.0	20.5	23.5	26.5	29.5	32.5	35.5	38.5	41.5	44.5	47.5	50.5	53.5	56.5	59.5	62.5	65.5	68.5	71.5	74.5	77.5	80.5	83.5	86.5	
2-3/4										20.6	22.3	25.5	28.8	32.0	35.3	38.5	41.8	45.0	48.3	51.5	54.8	58.0	61.3	64.5	67.8	71.0	74.3	77.5	80.8	84.0	87.3	90.5	93.8	
3											24.0	27.5	31.0	34.5	38.0	41.5	45.0	48.5	52.0	55.5	59.0	62.5	66.0	69.5	73.0	76.5	80.0	83.5	87.0	90.5	94.0	97.5	101.0	
3-1/2												31.5	35.5	39.5	43.5	47.5	51.5	55.5	59.5	63.5	67.5	71.5	75.5	79.5	83.5	87.5	91.5	95.5	99.5	103.5	107.5	111.5	115.5	
4													40.0	44.5	49.0	53.5	58.0	62.5	67.0	71.5	76.0	80.5	85.0	89.5	94.0	98.5	103.0	107.5	112.0	116.5	121.0	125.5	130.0	
4-1/2														49.5	54.5	59.5	64.5	69.5	74.5	79.5	84.5	89.5	94.5	99.5	104.5	109.5	114.5	119.5	124.5	129.5	134.5	139.5	144.5	
5															60.0	65.5	71.0	76.5	82.0	87.5	93.0	98.5	104.0	109.5	115.0	120.5	126.0	131.5	137.0	142.5	148.0	153.5	159.0	
5-1/2																71.5	77.5	83.5	89.5	95.5	101.5	107.5	113.5	119.5	125.5	131.5	137.5	143.5	149.5	155.5	161.5	167.5	173.5	
6																	84.0	90.5	97.0	103.5	110.0	116.5	123.0	129.5	136.0	142.5	149.0	155.5	162.0	168.5	175.0	181.5	188.0	
6-1/2																		97.5	104.5	111.5	118.5	125.5	132.5	139.5	146.5	153.5	160.5	167.5	174.5	181.5	188.5	195.5	202.5	
7																			112.0	119.5	127.0	134.5	142.0	149.5	157.0	164.5	172.0	179.5	187.0	194.5	202.0	209.5	217.0	
7-1/2																				127.5	135.5	143.5	151.5	159.5	167.5	175.5	183.5	191.5	199.5	207.5	215.5	223.5	231.5	
8																					144.0	152.5	161.0	169.5	178.0	186.5	195.0	203.5	212.0	220.5	229.0	237.5	246.0	
8-1/2																						161.5	170.5	179.5	188.5	197.5	206.5	215.5	224.5	233.5	242.5	251.5	260.5	
9																							180.0	189.5	199.0	208.5	218.0	227.5	237.0	246.5	256.0	265.5	275.0	
9-1/2																								199.5	209.5	219.5	229.5	239.5	249.5	259.5	269.5	279.5	289.5	
10																									220.0	230.5	241.0	251.5	262.0	272.5	283.0	293.5	304.0	
10-1/2																										241.5	252.5	263.5	274.5	285.5	296.5	307.5	318.5	
11																											264.0	275.5	287.0	298.5	310.0	321.5	333.0	
11-1/2																													287.5	299.5	311.5	323.5	335.5	347.5
12																														312.0	324.5	337.0	349.5	362.0
12-1/2																															337.5	350.5	363.5	376.5
13																																364.0	377.5	391.0
13-1/2																																	391.5	405.5
14																																		420.0







INCHES	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
14-1/2	449.5	464.5	494.5	524.5	554.5	584.5	614.5	644.5	674.5	704.5	734.5	764.5	794.5	824.5	854.5	884.5	914.5	944.5	974.5	1,005	1,035	1,065	1,095	1,125	1,155	1,185	1,215	1,245	1,275	1,305	1,335	1,365	1,395	1,425	1,455	
15		480.0	511.0	542.0	573.0	604.0	635.0	666.0	697.0	728.0	759.0	790.0	821.0	852.0	883.0	914.0	945.0	976.0	1,007	1,038	1,069	1,100	1,131	1,162	1,193	1,224	1,255	1,286	1,317	1,348	1,379	1,410	1,441	1,472	1,503	
16			544.0	577.0	610.0	643.0	676.0	709.0	742.0	775.0	808.0	841.0	874.0	907.0	940.0	973.0	1,006	1,039	1,072	1,105	1,138	1,171	1,204	1,237	1,270	1,303	1,336	1,369	1,402	1,435	1,468	1,501	1,534	1,567	1,600	
17				612.0	647.0	682.0	717.0	752.0	787.0	822.0	857.0	892.0	927.0	962.0	997.0	1,032	1,067	1,102	1,137	1,172	1,207	1,242	1,277	1,312	1,347	1,382	1,417	1,452	1,487	1,522	1,557	1,592	1,627	1,662	1,697	
18					684.0	721.0	758.0	795.0	832.0	869.0	906.0	943.0	980.0	1,017	1,054	1,091	1,128	1,165	1,202	1,239	1,276	1,313	1,350	1,387	1,424	1,461	1,498	1,535	1,572	1,609	1,646	1,683	1,720	1,757	1,794	
19						760.0	799.0	838.0	877.0	916.0	955.0	994.0	1,033	1,072	1,111	1,150	1,189	1,228	1,267	1,306	1,345	1,384	1,423	1,462	1,501	1,540	1,579	1,618	1,657	1,696	1,735	1,774	1,813	1,852	1,891	
20							840.0	881.0	922.0	963.0	1,004	1,045	1,086	1,127	1,168	1,209	1,250	1,291	1,332	1,373	1,414	1,455	1,496	1,537	1,578	1,619	1,660	1,701	1,742	1,783	1,824	1,865	1,906	1,947	1,988	
21								924.0	967.0	1,010	1,053	1,096	1,139	1,182	1,225	1,268	1,311	1,354	1,397	1,440	1,483	1,526	1,569	1,612	1,655	1,698	1,741	1,784	1,827	1,870	1,913	1,956	1,999	2,042	2,085	
22									1,012	1,057	1,102	1,147	1,192	1,237	1,282	1,327	1,372	1,417	1,462	1,507	1,552	1,597	1,642	1,687	1,732	1,777	1,822	1,867	1,912	1,957	2,002	2,047	2,092	2,137	2,182	
23										1,104	1,151	1,198	1,245	1,292	1,339	1,386	1,433	1,480	1,527	1,574	1,621	1,668	1,715	1,762	1,809	1,856	1,903	1,950	1,997	2,044	2,091	2,138	2,185	2,232	2,279	
24											1,200	1,249	1,298	1,347	1,396	1,445	1,494	1,543	1,592	1,641	1,690	1,739	1,788	1,837	1,886	1,935	1,984	2,033	2,082	2,131	2,180	2,229	2,278	2,327	2,376	
25												1,300	1,351	1,402	1,453	1,504	1,555	1,606	1,657	1,708	1,759	1,810	1,861	1,912	1,963	2,014	2,065	2,116	2,167	2,218	2,269	2,320	2,371	2,422	2,473	
26													1,404	1,457	1,510	1,563	1,616	1,669	1,722	1,775	1,828	1,881	1,934	1,987	2,040	2,093	2,146	2,199	2,252	2,305	2,358	2,411	2,464	2,517	2,570	
27														1,512	1,567	1,622	1,677	1,732	1,787	1,842	1,897	1,952	2,007	2,062	2,117	2,172	2,227	2,282	2,337	2,392	2,447	2,502	2,557	2,612	2,667	
28															1,624	1,681	1,738	1,795	1,852	1,909	1,966	2,023	2,080	2,137	2,194	2,251	2,308	2,365	2,422	2,479	2,536	2,593	2,650	2,707	2,764	
29																1,740	1,799	1,858	1,917	1,976	2,035	2,094	2,153	2,212	2,271	2,330	2,389	2,448	2,507	2,566	2,625	2,684	2,743	2,802	2,861	
30																	1,860	1,921	1,982	2,043	2,104	2,165	2,226	2,287	2,348	2,409	2,470	2,531	2,592	2,653	2,714	2,775	2,836	2,897	2,958	
31																		1,984	2,047	2,110	2,173	2,236	2,299	2,362	2,425	2,488	2,551	2,614	2,677	2,740	2,803	2,866	2,929	2,992	3,055	
32																			2,112	2,177	2,242	2,307	2,372	2,437	2,502	2,567	2,632	2,697	2,762	2,827	2,892	2,957	3,022	3,087	3,152	
33																				2,244	2,311	2,378	2,445	2,512	2,579	2,646	2,713	2,780	2,847	2,914	2,981	3,048	3,115	3,182	3,249	
34																					2,380	2,449	2,518	2,587	2,656	2,725	2,794	2,863	2,932	3,001	3,070	3,139	3,208	3,277	3,346	
35																						2,520	2,591	2,662	2,733	2,804	2,875	2,946	3,017	3,088	3,159	3,230	3,301	3,372	3,443	
36																							2,664	2,737	2,810	2,883	2,956	3,029	3,102	3,175	3,248	3,321	3,394	3,467	3,540	
37																								2,812	2,887	2,962	3,037	3,112	3,187	3,262	3,337	3,412	3,487	3,562	3,637	
38																									2,964	3,041	3,118	3,195	3,272	3,349	3,426	3,503	3,580	3,657	3,734	
39																										3,120	3,199	3,278	3,357	3,436	3,515	3,594	3,673	3,752	3,831	
40																											3,280	3,361	3,442	3,523	3,604	3,685	3,766	3,847	3,928	
41																													3,444	3,527	3,610	3,693	3,776	3,859	3,942	4,025
42																														3,612	3,697	3,782	3,867	3,952	4,037	4,122
43																															3,784	3,871	3,958	4,045	4,132	4,219
44																																3,960	4,049	4,138	4,227	4,316
45																																	4,140	4,231	4,322	4,413
46																																		4,324	4,417	4,510
47																																			4,512	4,607
48																																				4,704

$\frac{3}{4}$  "  $\frac{1}{4}$  "  $\frac{1}{2}$  "  $\frac{3}{4}$  " 2 "  $2\frac{1}{4}$  "  $2\frac{1}{2}$  "  $2\frac{3}{4}$  " 3 "  $3\frac{1}{2}$  " 4 "  $4\frac{1}{2}$  " 5 "  $5\frac{1}{2}$  " 6 "  $6\frac{1}{2}$  " 7 "  $7\frac{1}{2}$  " 8 "  $8\frac{1}{2}$  "

INCHES → 3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	
3/4	3.4	4.1	4.9	5.6	6.4	7.1	7.9	8.6	9.4	10.1	11.6	13.1	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.6	37.1	38.6	40.1	41.6	43.1	44.6
1		5.0	5.9	6.8	7.6	8.5	9.4	10.3	11.1	12.0	13.8	15.5	17.3	19.0	20.8	22.5	24.3	26.0	27.8	29.5	31.3	33.0	34.8	36.5	38.3	40.0	41.8	43.5	45.3	47.0	48.8	50.5	52.3
1-1/4			6.9	7.9	8.9	9.9	10.9	11.9	12.9	13.9	15.9	17.9	19.9	21.9	23.9	25.9	27.9	29.9	31.9	33.9	35.9	37.9	39.9	41.9	43.9	45.9	47.9	49.9	51.9	53.9	55.9	57.9	59.9
1-1/2				9.0	10.1	11.3	12.4	13.5	14.6	15.8	18.0	20.3	22.5	24.8	27.0	29.3	31.5	33.8	36.0	38.3	40.5	42.8	45.0	47.3	49.5	51.8	54.0	56.3	58.5	60.8	63.0	65.3	67.5
1-3/4					11.4	12.6	13.9	15.1	16.4	17.6	20.1	22.6	25.1	27.6	30.1	32.6	35.1	37.6	40.1	42.6	45.1	47.6	50.1	52.6	55.1	57.6	60.1	62.6	65.1	67.6	70.1	72.6	75.1
2						14.0	15.4	16.8	18.1	19.5	22.3	25.0	27.8	30.5	33.3	36.0	38.8	41.5	44.3	47.0	49.8	52.5	55.3	58.0	60.8	63.5	66.3	69.0	71.8	74.5	77.3	80.0	82.8
2-1/4							16.9	18.4	19.9	21.4	24.4	27.4	30.4	33.4	36.4	39.4	42.4	45.4	48.4	51.4	54.4	57.4	60.4	63.4	66.4	69.4	72.4	75.4	78.4	81.4	84.4	87.4	90.4
2-1/2								20.0	21.6	23.3	26.5	29.8	33.0	36.3	39.5	42.8	46.0	49.3	52.5	55.8	59.0	62.3	65.5	68.8	72.0	75.3	78.5	81.8	85.0	88.3	91.5	94.8	98.0
2-3/4									23.4	25.1	28.6	32.1	35.6	39.1	42.6	46.1	49.6	53.1	56.6	60.1	63.6	67.1	70.6	74.1	77.6	81.1	84.6	88.1	91.6	95.1	98.6	102.1	105.6
3										27.0	30.8	34.5	38.3	42.0	45.8	49.5	53.3	57.0	60.8	64.5	68.3	72.0	75.8	79.5	83.3	87.0	90.8	94.5	98.3	102.0	105.8	109.5	113.3
3-1/2											35.0	39.3	43.5	47.8	52.0	56.3	60.5	64.8	69.0	73.3	77.5	81.8	86.0	90.3	94.5	98.8	103.0	107.3	111.5	115.8	120.0	124.3	128.5
4												44.0	48.8	53.5	58.3	63.0	67.8	72.5	77.3	82.0	86.8	91.5	96.3	101.0	105.8	110.5	115.3	120.0	124.8	129.5	134.3	139.0	143.8
4-1/2													54.0	59.3	64.5	69.8	75.0	80.3	85.5	90.8	96.0	101.3	106.5	111.8	117.0	122.3	127.5	132.8	138.0	143.3	148.5	153.8	159.0
5														65.0	70.8	76.5	82.3	88.0	93.8	99.5	105.3	111.0	116.8	122.5	128.3	134.0	139.8	145.5	151.3	157.0	162.8	168.5	174.3
5-1/2															77.0	83.3	89.5	95.8	102.0	108.3	114.5	120.8	127.0	133.3	139.5	145.8	152.0	158.3	164.5	170.8	177.0	183.3	189.5
6																90.0	96.8	103.5	110.3	117.0	123.8	130.5	137.3	144.0	150.8	157.5	164.3	171.0	177.8	184.5	191.3	198.0	204.8
6-1/2																	104.0	111.3	118.5	125.8	133.0	140.3	147.5	154.8	162.0	169.3	176.5	183.8	191.0	198.3	205.5	212.8	220.0
7																		119.0	126.8	134.5	142.3	150.0	157.8	165.5	173.3	181.0	188.8	196.5	204.3	212.0	219.8	227.5	235.3
7-1/2																			135.0	143.3	151.5	159.8	168.0	176.3	184.5	192.8	201.0	209.3	217.5	225.8	234.0	242.3	250.5
8																				152.0	160.8	169.5	178.3	187.0	195.8	204.5	213.3	222.0	230.8	239.5	248.3	257.0	265.8
8-1/2																					170.0	179.3	188.5	197.8	207.0	216.3	225.5	234.8	244.0	253.3	262.5	271.8	281.0
9																						189.0	198.8	208.5	218.3	228.0	237.8	247.5	257.3	267.0	276.8	286.5	296.3
9-1/2																							209.0	219.3	229.5	239.8	250.0	260.3	270.5	280.8	291.0	301.3	311.5
10																								230.0	240.8	251.5	262.3	273.0	283.8	294.5	305.3	316.0	326.8
10-1/2																									252.0	263.3	274.5	285.8	297.0	308.3	319.5	330.8	342.0
11																										275.0	286.8	298.5	310.3	322.0	333.8	345.5	357.3
11-1/2																											299.0	311.3	323.5	335.8	348.0	360.3	372.5
12																												324.0	336.8	349.5	362.3	375.0	387.8
12-1/2																													350.0	363.3	376.5	389.8	403.0
13																														377.0	390.8	404.5	418.3
13-1/2																															405.0	419.3	433.5
14																																434.0	448.8
14-1/2																																	464.0



15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
46.1	49.1	52.1	55.1	58.1	61.1	64.1	67.1	70.1	73.1	76.1	79.1	82.1	85.1	88.1	91.1	94.1	97.1	100.1	103.1	106.1	109.1	112.1	115.1	118.1	121.1	124.1	127.1	130.1	133.1	136.1	139.1	142.1	145.1	3/4
54.0	57.5	61.0	64.5	68.0	71.5	75.0	78.5	82.0	85.5	89.0	92.5	96.0	99.5	103.0	106.5	110.0	113.5	117.0	120.5	124.0	127.5	131.0	134.5	138.0	141.5	145.0	148.5	152.0	155.5	159.0	162.5	166.0	169.5	1
61.9	65.9	69.9	73.9	77.9	81.9	85.9	89.9	93.9	97.9	101.9	105.9	109.9	113.9	117.9	121.9	125.9	129.9	133.9	137.9	141.9	145.9	149.9	153.9	157.9	161.9	165.9	169.9	173.9	177.9	181.9	185.9	189.9	193.9	1-1/4
69.8	74.3	78.8	83.3	87.8	92.3	96.8	101.3	105.8	110.3	114.8	119.3	123.8	128.3	132.8	137.3	141.8	146.3	150.8	155.3	159.8	164.3	168.8	173.3	177.8	182.3	186.8	191.3	195.8	200.3	204.8	209.3	213.8	218.3	1-1/2
77.6	82.6	87.6	92.6	97.6	102.6	107.6	112.6	117.6	122.6	127.6	132.6	137.6	142.6	147.6	152.6	157.6	162.6	167.6	172.6	177.6	182.6	187.6	192.6	197.6	202.6	207.6	212.6	217.6	222.6	227.6	232.6	237.6	242.6	1-3/4
85.5	91.0	96.5	102.0	107.5	113.0	118.5	124.0	129.5	135.0	140.5	146.0	151.5	157.0	162.5	168.0	173.5	179.0	184.5	190.0	195.5	201.0	206.5	212.0	217.5	223.0	228.5	234.0	239.5	245.0	250.5	256.0	261.5	267.0	2
93.4	99.4	105.4	111.4	117.4	123.4	129.4	135.4	141.4	147.4	153.4	159.4	165.4	171.4	177.4	183.4	189.4	195.4	201.4	207.4	213.4	219.4	225.4	231.4	237.4	243.4	249.4	255.4	261.4	267.4	273.4	279.4	285.4	291.4	2-1/4
101.3	107.8	114.3	120.8	127.3	133.8	140.3	146.8	153.3	159.8	166.3	172.8	179.3	185.8	192.3	198.8	205.3	211.8	218.3	224.8	231.3	237.8	244.3	250.8	257.3	263.8	270.3	276.8	283.3	289.8	296.3	302.8	309.3	315.8	2-1/2
109.1	116.1	123.1	130.1	137.1	144.1	151.1	158.1	165.1	172.1	179.1	186.1	193.1	200.1	207.1	214.1	221.1	228.1	235.1	242.1	249.1	256.1	263.1	270.1	277.1	284.1	291.1	298.1	305.1	312.1	319.1	326.1	333.1	340.1	2-3/4
117.0	124.5	132.0	139.5	147.0	154.5	162.0	169.5	177.0	184.5	192.0	199.5	207.0	214.5	222.0	229.5	237.0	244.5	252.0	259.5	267.0	274.5	282.0	289.5	297.0	304.5	312.0	319.5	327.0	334.5	342.0	349.5	357.0	364.5	3
132.8	141.3	149.8	158.3	166.8	175.3	183.8	192.3	200.8	209.3	217.8	226.3	234.8	243.3	251.8	260.3	268.8	277.3	285.8	294.3	302.8	311.3	319.8	328.3	336.8	345.3	353.8	362.3	370.8	379.3	387.8	396.3	404.8	413.3	3-1/2
148.5	158.0	167.5	177.0	186.5	196.0	205.5	215.0	224.5	234.0	243.5	253.0	262.5	272.0	281.5	291.0	300.5	310.0	319.5	329.0	338.5	348.0	357.5	367.0	376.5	386.0	395.5	405.0	414.5	424.0	433.5	443.0	452.5	462.0	4
164.3	174.8	185.3	195.8	206.3	216.8	227.3	237.8	248.3	258.8	269.3	279.8	290.3	300.8	311.3	321.8	332.3	342.8	353.3	363.8	374.3	384.8	395.3	405.8	416.3	426.8	437.3	447.8	458.3	468.8	479.3	489.8	500.3	510.8	4-1/2
180.0	191.5	203.0	214.5	226.0	237.5	249.0	260.5	272.0	283.5	295.0	306.5	318.0	329.5	341.0	352.5	364.0	375.5	387.0	398.5	410.0	421.5	433.0	444.5	456.0	467.5	479.0	490.5	502.0	513.5	525.0	536.5	548.0	559.5	5
195.8	208.3	220.8	233.3	245.8	258.3	270.8	283.3	295.8	308.3	320.8	333.3	345.8	358.3	370.8	383.3	395.8	408.3	420.8	433.3	445.8	458.3	470.8	483.3	495.8	508.3	520.8	533.3	545.8	558.3	570.8	583.3	595.8	608.3	5-1/2
211.5	225.0	238.5	252.0	265.5	279.0	292.5	306.0	319.5	333.0	346.5	360.0	373.5	387.0	400.5	414.0	427.5	441.0	454.5	468.0	481.5	495.0	508.5	522.0	535.5	549.0	562.5	576.0	589.5	603.0	616.5	630.0	643.5	657.0	6
227.3	241.8	256.3	270.8	285.3	299.8	314.3	328.8	343.3	357.8	372.3	386.8	401.3	415.8	430.3	444.8	459.3	473.8	488.3	502.8	517.3	531.8	546.3	560.8	575.3	589.8	604.3	618.8	633.3	647.8	662.3	676.8	691.3	705.8	6-1/2
243.0	258.5	274.0	289.5	305.0	320.5	336.0	351.5	367.0	382.5	398.0	413.5	429.0	444.5	460.0	475.5	491.0	506.5	522.0	537.5	553.0	568.5	584.0	599.5	615.0	630.5	646.0	661.5	677.0	692.5	708.0	723.5	739.0	754.5	7
258.8	275.3	291.8	308.3	324.8	341.3	357.8	374.3	390.8	407.3	423.8	440.3	456.8	473.3	489.8	506.3	522.8	539.3	555.8	572.3	588.8	605.3	621.8	638.3	654.8	671.3	687.8	704.3	720.8	737.3	753.8	770.3	786.8	803.3	7-1/2
274.5	292.0	309.5	327.0	344.5	362.0	379.5	397.0	414.5	432.0	449.5	467.0	484.5	502.0	519.5	537.0	554.5	572.0	589.5	607.0	624.5	642.0	659.5	677.0	694.5	712.0	729.5	747.0	764.5	782.0	799.5	817.0	834.5	852.0	8
290.3	308.8	327.3	345.8	364.3	382.8	401.3	419.8	438.3	456.8	475.3	493.8	512.3	530.8	549.3	567.8	586.3	604.8	623.3	641.8	660.3	678.8	697.3	715.8	734.3	752.8	771.3	789.8	808.3	826.8	845.3	863.8	882.3	900.8	8-1/2
306.0	325.5	345.0	364.5	384.0	403.5	423.0	442.5	462.0	481.5	501.0	520.5	540.0	559.5	579.0	598.5	618.0	637.5	657.0	676.5	696.0	715.5	735.0	754.5	774.0	793.5	813.0	832.5	852.0	871.5	891.0	910.5	930.0	949.5	9
321.8	342.3	362.8	383.3	403.8	424.3	444.8	465.3	485.8	506.3	526.8	547.3	567.8	588.3	608.8	629.3	649.8	670.3	690.8	711.3	731.8	752.3	772.8	793.3	813.8	834.3	854.8	875.3	895.8	916.3	936.8	957.3	977.8	998.3	9-1/2
337.5	359.0	380.5	402.0	423.5	445.0	466.5	488.0	509.5	531.0	552.5	574.0	595.5	617.0	638.5	660.0	681.5	703.0	724.5	746.0	767.5	789.0	810.5	832.0	853.5	875.0	896.5	918.0	939.5	961.0	982.5	1,004.0	1,025.5	1,047.0	10
353.3	375.8	398.3	420.8	443.3	465.8	488.3	510.8	533.3	555.8	578.3	600.8	623.3	645.8	668.3	690.8	713.3	735.8	758.3	780.8	803.3	825.8	848.3	870.8	893.3	915.8	938.3	960.8	983.3	1,006.8	1,029.3	1,051.8	1,074.3	1,096.8	10-1/2
369.0	392.5	416.0	439.5	463.0	486.5	510.0	533.5	557.0	580.5	604.0	627.5	651.0	674.5	698.0	721.5	745.0	768.5	792.0	815.5	839.0	862.5	886.0	909.5	933.0	956.5	980.0	1,004.0	1,027.5	1,051.0	1,074.5	1,098.0	1,121.5	1,145.0	11
384.8	409.3	433.8	458.3	482.8	507.3	531.8	556.3	580.8	605.3	629.8	654.3	678.8	703.3	727.8	752.3	776.8	801.3	825.8	850.3	874.8	899.3	923.8	948.3	972.8	997.3	1,022.8	1,047.3	1,071.8	1,096.3	1,120.8	1,145.3	1,169.8	1,194.3	11-1/2
400.5	426.0	451.5	477.0	502.5	528.0	553.5	579.0	604.5	630.0	655.5	681.0	706.5	732.0	757.5	783.0	808.5	834.0	859.5	885.0	910.5	936.0	961.5	987.0	1,013.5	1,039.0	1,064.5	1,089.0	1,114.5	1,140.0	1,165.5	1,191.0	1,217.0	1,242.5	12
416.3	442.8	469.3	495.8	522.3	548.8	575.3	601.8	628.3	654.8	681.3	707.8	734.3	760.8	787.3	813.8	840.3	866.8	893.3	919.8	946.3	972.8	999.3	1,026.8	1,053.3	1,079.8	1,106.3	1,132.8	1,159.3	1,185.8	1,212.3	1,238.8	1,265.3	1,291.8	12-1/2
432.0	459.5	487.0	514.5	542.0	569.5	597.0	624.5	652.0	679.5	707.0	734.5	762.0	789.5	817.0	844.5	872.0	899.5	927.0	954.5	982.0	1,010.5	1,038.0	1,065.5	1,093.0	1,120.5	1,148.0	1,175.5	1,203.0	1,230.5	1,258.0	1,285.5	1,313.0	1,340.5	13
447.8	476.3	504.8	533.3	561.8	590.3	618.8	647.3	675.8	704.3	732.8	761.3	789.8	818.3	846.8	875.3	903.8	932.3	960.8	989.3	1,018.8	1,047.3	1,075.8	1,104.3	1,132.8	1,161.3	1,189.8	1,218.3	1,246.8	1,275.3	1,303.8	1,332.3	1,360.8	1,388.3	13-1/2
463.5	493.0	522.5	552.0	581.5	611.0	640.5	670.0	699.5	729.0	758.5	788.0	817.5	847.0	876.5	906.0	935.5	965.0	994.5	1,024.0	1,053.5	1,083.0	1,112.5	1,142.0	1,171.5	1,201.0	1,230.5	1,260.0	1,289.5	1,319.0	1,348.5	1,378.0	1,407.5	1,437.0	14
479.3	509.8	540.3	570.8	601.3	631.8	662.3	692.8	723.3	753.8	784.3	814.8	845.3	875.8	906.3	936.8	967.3	997.8	1,028.3	1,058.8	1,089.3	1,119.8	1,150.3	1,180.8	1,211.3	1,241.8	1,272.3	1,302.8	1,333.3	1,363.8	1,394.3	1,424.8	1,455.3	1,485.8	14-1/2

$\frac{1}{32}$   $\frac{1}{16}$   $\frac{1}{8}$   $\frac{1}{4}$   $\frac{1}{2}$   $1$   $2$   $3$   $4$   $5$   $6$   $7$   $8$



INCHES →	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
15	15	526.5	558.0	589.5	621.0	652.5	684.0	715.5	747.0	778.5	810.0	841.5	873.0	904.5	936.0	967.5	999.0	1,031	1,062	1,094	1,125	1,157	1,188	1,220	1,251	1,283	1,314	1,346	1,377	1,409	1,440	1,472	1,503	1,535
16		560.0	593.5	627.0	660.5	694.0	727.5	761.0	794.5	828.0	861.5	895.0	928.5	962.0	995.5	1,029	1,063	1,096	1,130	1,163	1,197	1,230	1,264	1,297	1,331	1,364	1,398	1,431	1,465	1,498	1,532	1,565	1,599	1,632
17			629.0	664.5	700.0	735.5	771.0	806.5	842.0	877.5	913.0	948.5	984.0	1,020	1,055	1,091	1,126	1,162	1,197	1,233	1,268	1,304	1,339	1,375	1,410	1,446	1,481	1,517	1,552	1,588	1,623	1,659	1,694	1,730
18				702.0	739.5	777.0	814.5	852.0	889.5	927.0	964.5	1,002	1,040	1,077	1,115	1,152	1,190	1,227	1,265	1,302	1,340	1,377	1,415	1,452	1,490	1,527	1,565	1,602	1,640	1,677	1,715	1,752	1,790	1,827
19					779.0	818.5	858.0	897.5	937.0	976.5	1,016	1,056	1,095	1,135	1,174	1,214	1,253	1,293	1,332	1,372	1,411	1,451	1,490	1,530	1,569	1,609	1,648	1,688	1,727	1,767	1,806	1,846	1,885	1,925
20						860.0	901.5	943.0	984.5	1,026	1,068	1,109	1,151	1,192	1,234	1,275	1,317	1,358	1,400	1,441	1,483	1,524	1,566	1,607	1,649	1,690	1,732	1,773	1,815	1,856	1,898	1,939	1,981	2,022
21							945.0	988.5	1,032	1,076	1,119	1,163	1,206	1,250	1,293	1,337	1,380	1,424	1,467	1,511	1,554	1,598	1,641	1,685	1,728	1,772	1,815	1,859	1,902	1,946	1,989	2,033	2,076	2,120
22								1,034	1,080	1,125	1,171	1,216	1,262	1,307	1,353	1,398	1,444	1,489	1,535	1,580	1,626	1,671	1,717	1,762	1,808	1,853	1,899	1,944	1,990	2,035	2,081	2,126	2,172	2,217
23									1,127	1,175	1,222	1,270	1,317	1,365	1,412	1,460	1,507	1,555	1,602	1,650	1,697	1,745	1,792	1,840	1,887	1,935	1,982	2,030	2,077	2,125	2,172	2,220	2,267	2,315
24										1,224	1,274	1,323	1,373	1,422	1,472	1,521	1,571	1,620	1,670	1,719	1,769	1,818	1,868	1,917	1,967	2,016	2,066	2,115	2,165	2,214	2,264	2,313	2,363	2,412
25											1,325	1,377	1,428	1,480	1,531	1,583	1,634	1,686	1,737	1,789	1,840	1,892	1,943	1,995	2,046	2,098	2,149	2,201	2,252	2,304	2,355	2,407	2,458	2,510
26												1,430	1,484	1,537	1,591	1,644	1,698	1,751	1,805	1,858	1,912	1,965	2,019	2,072	2,126	2,179	2,233	2,286	2,340	2,393	2,447	2,500	2,554	2,607
27													1,539	1,595	1,650	1,706	1,761	1,817	1,872	1,928	1,983	2,039	2,094	2,150	2,205	2,261	2,316	2,372	2,427	2,483	2,538	2,594	2,649	2,705
28														1,652	1,710	1,767	1,822	1,882	1,940	1,997	2,055	2,112	2,170	2,227	2,285	2,342	2,400	2,457	2,515	2,572	2,630	2,687	2,745	2,802
29															1,769	1,829	1,888	1,948	2,007	2,067	2,126	2,186	2,245	2,305	2,364	2,424	2,483	2,543	2,602	2,662	2,721	2,781	2,840	2,900
30																1,890	1,952	2,013	2,075	2,136	2,198	2,260	2,321	2,382	2,444	2,505	2,567	2,628	2,690	2,751	2,813	2,874	2,936	2,997
31																	2,015	2,079	2,142	2,206	2,269	2,333	2,396	2,460	2,523	2,587	2,650	2,714	2,777	2,841	2,904	2,968	3,031	3,095
32																		2,144	2,210	2,275	2,341	2,406	2,472	2,537	2,603	2,668	2,734	2,799	2,865	2,930	2,996	3,061	3,127	3,192
33																			2,277	2,345	2,412	2,480	2,547	2,615	2,682	2,750	2,817	2,885	2,952	3,020	3,087	3,155	3,222	3,290
34																				2,414	2,484	2,553	2,623	2,692	2,762	2,831	2,901	2,970	3,040	3,109	3,179	3,248	3,318	3,387
35																					2,555	2,627	2,698	2,770	2,841	2,913	2,984	3,056	3,127	3,199	3,270	3,342	3,413	3,485
36																						2,700	2,774	2,847	2,921	2,994	3,068	3,141	3,215	3,288	3,362	3,435	3,509	3,582
37																							2,849	2,925	3,000	3,076	3,151	3,227	3,302	3,378	3,453	3,529	3,604	3,680
38																								3,002	3,080	3,157	3,235	3,312	3,390	3,467	3,545	3,622	3,700	3,777
39																									3,159	3,239	3,318	3,398	3,477	3,557	3,636	3,716	3,795	3,875
40																										3,320	3,402	3,483	3,565	3,646	3,728	3,809	3,891	3,972
41																											3,485	3,569	3,652	3,736	3,819	3,903	3,986	4,070
42																												3,654	3,740	3,825	3,911	3,996	4,082	4,167
43																													3,827	3,915	4,002	4,090	4,177	4,265
44																														4,004	4,094	4,183	4,273	4,362
45																															4,185	4,277	4,368	4,460
46																																4,370	4,464	4,557
47																																	4,559	4,655
48																																		4,792

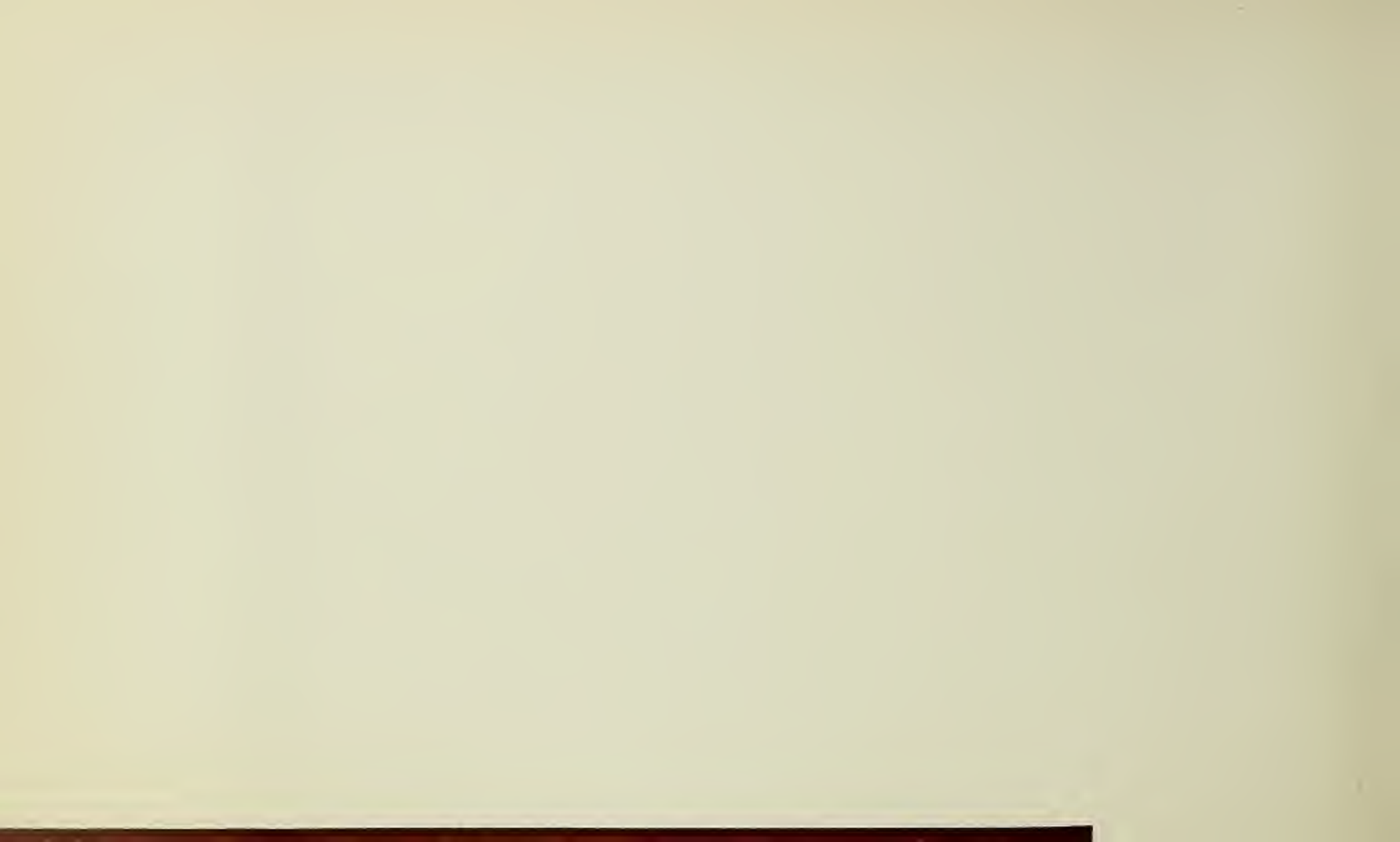
1" 1 1/4" 1 1/2" 1 3/4" 2" 2 1/4" 2 1/2" 2 3/4" 3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8"

INCHES →	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2
1	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0
1-1/4		8.1	9.3	10.4	11.5	12.6	13.8	14.9	16.0	18.3	20.5	22.8	25.0	27.3	29.5	31.8	34.0	36.3	38.5	40.8	43.0	45.3	47.5	49.8	52.0	54.3	56.5	58.8	61.0	63.3	65.5	67.8
1-1/2			10.5	11.8	13.0	14.3	15.5	16.8	18.0	20.5	23.0	25.5	28.0	30.5	33.0	35.5	38.0	40.5	43.0	45.5	48.0	50.5	53.0	55.5	58.0	60.5	63.0	65.5	68.0	70.5	73.0	75.5
1-3/4				13.1	14.5	15.9	17.3	18.6	20.0	22.8	25.5	28.3	31.0	33.8	36.5	39.3	42.0	44.8	47.5	50.3	53.0	55.8	58.5	61.3	64.0	66.8	69.5	72.3	75.0	77.8	80.5	83.3
2					16.0	17.5	19.0	20.5	22.0	25.0	28.0	31.0	34.0	37.0	40.0	43.0	46.0	49.0	52.0	55.0	58.0	61.0	64.0	67.0	70.0	73.0	76.0	79.0	82.0	85.0	88.0	91.0
2-1/4						19.1	20.8	22.4	24.0	27.3	30.5	33.8	37.0	40.3	43.5	46.8	50.0	53.3	56.5	59.8	63.0	66.3	69.5	72.8	76.0	79.3	82.5	85.8	89.0	92.3	95.5	98.8
2-1/2							22.5	24.3	26.0	29.5	33.0	36.5	40.0	43.5	47.0	50.5	54.0	57.5	61.0	64.5	68.0	71.5	75.0	78.5	82.0	85.5	89.0	92.5	96.0	99.5	103.0	106.5
2-3/4								26.1	28.0	31.8	35.5	39.3	43.0	46.8	50.5	54.3	58.0	61.8	65.5	69.3	73.0	76.8	80.5	84.3	88.0	91.8	95.5	99.3	103.0	106.8	110.5	114.3
3									30.0	34.0	38.0	42.0	46.0	50.0	54.0	58.0	62.0	66.0	70.0	74.0	78.0	82.0	86.0	90.0	94.0	98.0	102.0	106.0	110.0	114.0	118.0	122.0
3-1/2										38.5	43.0	47.5	52.0	56.5	61.0	65.5	70.0	74.5	79.0	83.5	88.0	92.5	97.0	101.5	106.0	110.5	115.0	119.5	124.0	128.5	133.0	137.5
4											48.0	53.0	58.0	63.0	68.0	73.0	78.0	83.0	88.0	93.0	98.0	103.0	108.0	113.0	118.0	123.0	128.0	133.0	138.0	143.0	148.0	153.0
4-1/2												58.5	64.0	69.5	75.0	80.5	86.0	91.5	97.0	102.5	108.0	113.5	119.0	124.5	130.0	135.5	141.0	146.5	152.0	157.5	163.0	168.5
5													70.0	76.0	82.0	88.0	94.0	100.0	106.0	112.0	118.0	124.0	130.0	136.0	142.0	148.0	154.0	160.0	166.0	172.0	178.0	184.0
5-1/2														82.5	89.0	95.5	102.0	108.5	115.0	121.5	128.0	134.5	141.0	147.5	154.0	160.5	167.0	173.5	180.0	186.5	193.0	199.5
6															96.0	103.0	110.0	117.0	124.0	131.0	138.0	145.0	152.0	159.0	166.0	173.0	180.0	187.0	194.0	201.0	208.0	215.0
6-1/2																110.5	118.0	125.5	133.0	140.5	148.0	155.5	163.0	170.5	178.0	185.5	193.0	200.5	208.0	215.5	223.0	230.5
7																	126.0	134.0	142.0	150.0	158.0	166.0	174.0	182.0	190.0	198.0	206.0	214.0	222.0	230.0	238.0	246.0
7-1/2																		142.5	151.0	159.5	168.0	176.5	185.0	193.5	202.0	210.5	219.0	227.5	236.0	244.5	253.0	261.5
8																			160.0	169.0	178.0	187.0	196.0	205.0	214.0	223.0	232.0	241.0	250.0	259.0	268.0	277.0
8-1/2																				178.5	188.0	197.5	207.0	216.5	226.0	235.5	245.0	254.5	264.0	273.5	283.0	292.5
9																					198.0	208.0	218.0	228.0	238.0	248.0	258.0	268.0	278.0	288.0	298.0	308.0
9-1/2																						218.5	229.0	239.5	250.0	260.5	271.0	281.5	292.0	302.5	313.0	323.5
10																							240.0	251.0	262.0	273.0	284.0	295.0	306.0	317.0	328.0	339.0
10-1/2																								262.5	274.0	285.5	297.0	308.5	320.0	331.5	343.0	354.5
11																									286.0	298.0	310.0	322.0	334.0	346.0	358.0	370.0
11-1/2																										310.5	323.0	335.5	348.0	360.5	373.0	385.5
12																											336.0	349.0	362.0	375.0	388.0	401.0
12-1/2																												362.5	376.0	389.5	403.0	416.5
13																													390.0	404.0	418.0	432.0
13-1/2																														418.5	433.0	447.5
14																															448.0	463.0
14-1/2																																478.5



15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
62.0	66.0	70.0	74.0	78.0	82.0	86.0	90.0	94.0	98.0	102.0	106.3	110.3	114.0	118.0	122.0	126.0	130.0	134.0	138.0	142.0	146.0	150.0	154.0	158.0	162.0	166.0	170.0	174.0	178.0	182.0	186.0	190.0	194.0	1
70.0	74.5	79.0	83.5	88.0	92.5	97.0	101.5	106.0	110.5	115.0	119.5	124.0	128.5	133.0	137.5	142.0	146.5	151.0	155.5	160.0	164.5	169.0	173.5	178.0	182.5	187.0	191.5	196.0	200.5	205.0	209.5	214.0	218.5	1-1/4
78.0	83.0	88.0	93.0	98.0	103.0	108.0	113.0	118.0	123.0	128.0	133.0	138.0	143.0	148.0	153.0	158.0	163.0	168.0	173.0	178.0	183.0	188.0	193.0	198.0	203.0	208.0	213.0	218.0	223.0	228.0	233.0	238.0	243.0	1-1/2
86.0	91.5	97.0	102.5	108.0	113.5	119.0	124.5	130.0	135.5	141.0	146.5	152.0	157.5	163.0	168.5	174.0	179.5	185.0	190.5	196.0	201.5	207.0	212.5	218.0	223.5	229.0	234.5	240.0	245.5	251.0	256.5	262.0	267.5	1-3/4
94.0	100.0	106.0	112.0	118.0	124.0	130.0	136.0	142.0	148.0	154.0	160.0	166.0	172.0	178.0	184.0	190.0	196.0	202.0	208.0	214.0	220.0	226.0	232.0	238.0	244.0	250.0	256.0	262.0	268.0	274.0	280.0	286.0	292.0	2
102.0	108.5	115.0	121.5	128.0	134.5	141.0	147.5	154.0	160.5	167.0	173.5	180.0	186.5	193.0	199.5	206.0	212.5	219.0	225.5	232.0	238.5	245.0	251.5	258.0	264.5	271.0	277.5	284.0	290.5	297.0	303.5	310.0	316.5	2-1/4
110.0	117.0	124.0	131.0	138.0	145.0	152.0	159.0	166.0	173.0	180.0	187.0	194.0	201.0	208.0	215.0	222.0	229.0	236.0	243.0	250.0	257.0	264.0	271.0	278.0	285.0	292.0	299.0	306.0	313.0	320.0	327.0	334.0	341.0	2-1/2
118.0	125.5	133.0	140.5	148.0	155.5	163.0	170.5	178.0	185.5	193.0	200.5	208.0	215.5	223.0	230.5	238.0	245.5	253.0	260.5	268.0	275.5	283.0	290.5	298.0	305.5	313.0	320.5	328.0	335.5	343.0	350.5	358.0	365.5	2-3/4
126.0	134.0	142.0	150.0	158.0	166.0	174.0	182.0	190.0	198.0	206.0	214.0	222.0	230.0	238.0	246.0	254.0	262.0	270.0	278.0	286.0	294.0	302.0	310.0	318.0	326.0	334.0	342.0	350.0	358.0	366.0	374.0	382.0	390.0	3
142.0	151.0	160.0	169.0	178.0	187.0	196.0	205.0	214.0	223.0	232.0	241.0	250.0	259.0	268.0	277.0	286.0	295.0	304.0	313.0	322.0	331.0	340.0	349.0	358.0	367.0	376.0	385.0	394.0	403.0	412.0	421.0	430.0	439.0	3-1/2
158.0	168.0	178.0	188.0	198.0	208.0	218.0	228.0	238.0	248.0	258.0	268.0	278.0	288.0	298.0	308.0	318.0	328.0	338.0	348.0	358.0	368.0	378.0	388.0	398.0	408.0	418.0	428.0	438.0	448.0	458.0	468.0	478.0	488.0	4
174.0	185.0	196.0	207.0	218.0	229.0	240.0	251.0	262.0	273.0	284.0	295.0	306.0	317.0	328.0	339.0	350.0	361.0	372.0	383.0	394.0	405.0	416.0	427.0	438.0	449.0	460.0	471.0	482.0	493.0	504.0	515.0	526.0	537.0	4-1/2
190.0	202.0	214.0	226.0	238.0	250.0	262.0	274.0	286.0	298.0	310.0	322.0	334.0	346.0	358.0	370.0	382.0	394.0	406.0	418.0	430.0	442.0	454.0	466.0	478.0	490.0	502.0	514.0	526.0	538.0	550.0	562.0	574.0	586.0	5
206.0	219.0	232.0	245.0	258.0	271.0	284.0	297.0	310.0	323.0	336.0	349.0	362.0	375.0	388.0	401.0	414.0	427.0	440.0	453.0	466.0	479.0	492.0	505.0	518.0	531.0	544.0	557.0	570.0	583.0	596.0	609.0	622.0	635.0	5-1/2
222.0	236.0	250.0	264.0	278.0	292.0	306.0	320.0	334.0	348.0	362.0	376.0	390.0	404.0	418.0	432.0	446.0	460.0	474.0	488.0	502.0	516.0	530.0	544.0	558.0	572.0	586.0	600.0	614.0	628.0	642.0	656.0	670.0	684.0	6
238.0	253.0	268.0	283.0	298.0	313.0	328.0	343.0	358.0	373.0	388.0	403.0	418.0	433.0	448.0	463.0	478.0	493.0	508.0	523.0	538.0	553.0	568.0	583.0	598.0	613.0	628.0	643.0	658.0	673.0	688.0	703.0	718.0	733.0	6-1/2
254.0	270.0	286.0	302.0	318.0	334.0	350.0	366.0	382.0	398.0	414.0	430.0	446.0	462.0	478.0	494.0	510.0	526.0	542.0	558.0	574.0	590.0	606.0	622.0	638.0	654.0	670.0	686.0	702.0	718.0	734.0	750.0	766.0	782.0	7
270.0	287.0	304.0	321.0	338.0	355.0	372.0	389.0	406.0	423.0	440.0	457.0	474.0	491.0	508.0	525.0	542.0	559.0	576.0	593.0	610.0	627.0	644.0	661.0	678.0	695.0	712.0	729.0	746.0	763.0	780.0	797.0	814.0	831.0	7-1/2
286.0	304.0	322.0	340.0	358.0	376.0	394.0	412.0	430.0	448.0	466.0	484.0	502.0	520.0	538.0	556.0	574.0	592.0	610.0	628.0	646.0	664.0	682.0	700.0	718.0	736.0	754.0	772.0	790.0	808.0	826.0	844.0	862.0	880.0	8
302.0	321.0	340.0	359.0	378.0	397.0	416.0	435.0	454.0	473.0	492.0	511.0	530.0	549.0	568.0	587.0	606.0	625.0	644.0	663.0	682.0	701.0	720.0	739.0	758.0	777.0	796.0	815.0	834.0	853.0	872.0	891.0	910.0	929.0	8-1/2
318.0	338.0	358.0	378.0	398.0	418.0	438.0	458.0	478.0	498.0	518.0	538.0	558.0	578.0	598.0	618.0	638.0	658.0	678.0	698.0	718.0	738.0	758.0	778.0	798.0	818.0	838.0	858.0	878.0	898.0	918.0	938.0	958.0	978.0	9
334.0	355.0	376.0	397.0	418.0	439.0	460.0	481.0	502.0	523.0	544.0	565.0	586.0	607.0	628.0	649.0	670.0	691.0	712.0	733.0	754.0	775.0	796.0	817.0	838.0	859.0	880.0	901.0	922.0	943.0	964.0	985.0	1,006	1,027	9-1/2
350.0	372.0	394.0	416.0	438.0	460.0	504.0	526.0	548.0	570.0	592.0	614.0	636.0	658.0	680.0	702.0	724.0	746.0	768.0	790.0	812.0	834.0	856.0	878.0	900.0	922.0	944.0	966.0	988.0	1,010	1,032	1,054	1,076	10	
366.0	389.0	412.0	435.0	458.0	481.0	504.0	527.0	550.0	573.0	596.0	619.0	642.0	665.0	688.0	711.0	734.0	757.0	780.0	803.0	826.0	849.0	872.0	895.0	918.0	941.0	964.0	987.0	1,010	1,033	1,056	1,079	1,102	1,125	10-1/2
382.0	406.0	430.0	454.0	478.0	502.0	526.0	550.0	574.0	598.0	622.0	646.0	670.0	694.0	718.0	742.0	766.0	790.0	814.0	838.0	862.0	886.0	910.0	934.0	958.0	982.0	1,006	1,030	1,054	1,078	1,102	1,126	1,150	1,174	11
398.0	423.0	448.0	473.0	498.0	523.0	548.0	573.0	598.0	623.0	648.0	673.0	698.0	723.0	748.0	773.0	798.0	823.0	848.0	873.0	898.0	923.0	948.0	973.0	998.0	1,023	1,048	1,073	1,098	1,123	1,148	1,173	1,198	1,223	11-1/2
414.0	440.0	466.0	492.0	518.0	544.0	570.0	596.0	622.0	648.0	674.0	700.0	726.0	752.0	778.0	804.0	830.0	856.0	882.0	908.0	934.0	960.0	986.0	1,012	1,038	1,064	1,090	1,116	1,142	1,168	1,194	1,220	1,246	1,272	12
430.0	457.0	484.0	511.0	538.0	565.0	592.0	619.0	646.0	673.0	700.0	727.0	754.0	781.0	808.0	835.0	862.0	889.0	916.0	943.0	970.0	997.0	1,024	1,051	1,078	1,105	1,132	1,159	1,186	1,213	1,240	1,267	1,294	1,321	12-1/2
446.0	474.0	502.0	530.0	558.0	586.0	614.0	642.0	670.0	698.0	726.0	754.0	782.0	810.0	838.0	866.0	894.0	922.0	950.0	978.0	1,006	1,034	1,062	1,090	1,118	1,146	1,174	1,202	1,230	1,258	1,286	1,314	1,342	1,370	13
462.0	491.0	520.0	549.0	578.0	607.0	636.0	665.0	694.0	723.0	752.0	781.0	810.0	839.0	868.0	897.0	926.0	955.0	984.0	1,013	1,042	1,071	1,100	1,129	1,158	1,187	1,216	1,245	1,274	1,303	1,332	1,361	1,390	1,419	13-1/2
478.0	508.0	538.0	568.0	598.0	628.0	658.0	688.0	718.0	748.0	778.0	808.0	838.0	868.0	898.0	928.0	958.0	988.0	1,018	1,048	1,078	1,108	1,138	1,168	1,198	1,228	1,258	1,288	1,318	1,348	1,378	1,408	1,438	1,468	14
494.0	525.0	556.0	587.0	618.0	649.0	680.0	711.0	742.0	773.0	804.0	835.0	866.0	897.0	928.0	959.0	990.0	1,021	1,052	1,083	1,114	1,145	1,176	1,207	1,238	1,269	1,300	1,331	1,362	1,393	1,424	1,455	1,486	1,517	14-1/4

1" = 1/4" = 1/2" = 3/4" = 1" = 1 1/4" = 1 1/2" = 1 3/4" = 2" = 2 1/4" = 2 1/2" = 2 3/4" = 3" = 3 1/2" = 4" = 4 1/2" = 5" = 5 1/2" = 6" = 6 1/2" = 7" = 7 1/2" = 8" = 8 1/2"



INCHES →	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
15	510.0	542.0	574.0	606.0	638.0	670.0	702.0	734.0	766.0	798.0	830.0	862.0	894.0	926.0	958.0	990.0	1,022	1,054	1,086	1,118	1,150	1,182	1,214	1,246	1,278	1,310	1,342	1,374	1,406	1,438	1,470	1,502	1,534	1,566	
16		576.0	610.0	644.0	678.0	712.0	746.0	780.0	814.0	848.0	882.0	916.0	950.0	984.0	1,018	1,052	1,086	1,120	1,154	1,188	1,222	1,256	1,290	1,324	1,358	1,392	1,426	1,460	1,494	1,528	1,562	1,596	1,630	1,664	
17			646.0	682.0	718.0	754.0	790.0	826.0	862.0	898.0	934.0	970.0	1,006	1,042	1,078	1,114	1,150	1,186	1,222	1,258	1,294	1,330	1,366	1,402	1,438	1,474	1,510	1,546	1,582	1,618	1,654	1,690	1,726	1,762	
18				720.0	758.0	796.0	834.0	872.0	910.0	948.0	986.0	1,024	1,062	1,100	1,138	1,176	1,214	1,252	1,290	1,328	1,366	1,404	1,442	1,480	1,518	1,556	1,594	1,632	1,670	1,708	1,746	1,784	1,822	1,860	
19					798.0	838.0	878.0	918.0	958.0	998.0	1,038	1,078	1,118	1,158	1,198	1,238	1,278	1,318	1,358	1,398	1,438	1,478	1,518	1,558	1,598	1,638	1,678	1,718	1,758	1,798	1,838	1,878	1,918	1,958	
20						880.0	922.0	964.0	1,006	1,048	1,090	1,132	1,174	1,216	1,258	1,300	1,342	1,384	1,426	1,468	1,510	1,552	1,594	1,636	1,678	1,720	1,762	1,804	1,846	1,888	1,930	1,972	2,014	2,056	
21							966.0	1,010	1,054	1,098	1,142	1,186	1,230	1,274	1,318	1,362	1,406	1,450	1,494	1,538	1,582	1,626	1,670	1,714	1,758	1,802	1,846	1,890	1,934	1,978	2,022	2,066	2,110	2,154	
22								1,056	1,102	1,148	1,194	1,240	1,286	1,332	1,378	1,424	1,470	1,516	1,562	1,608	1,654	1,700	1,746	1,792	1,838	1,884	1,930	1,976	2,022	2,068	2,114	2,160	2,206	2,252	
23									1,150	1,198	1,246	1,294	1,342	1,390	1,438	1,486	1,534	1,582	1,630	1,678	1,726	1,774	1,822	1,870	1,918	1,966	2,014	2,062	2,110	2,158	2,206	2,254	2,302	2,350	
24										1,248	1,298	1,348	1,398	1,448	1,498	1,548	1,598	1,648	1,698	1,748	1,798	1,848	1,898	1,948	1,998	2,048	2,098	2,148	2,198	2,248	2,298	2,348	2,398	2,448	
25											1,350	1,402	1,454	1,506	1,558	1,610	1,662	1,714	1,766	1,818	1,870	1,922	1,974	2,026	2,078	2,130	2,182	2,234	2,286	2,338	2,390	2,442	2,494	2,546	
26												1,456	1,510	1,564	1,618	1,672	1,726	1,780	1,834	1,888	1,942	1,996	2,050	2,104	2,158	2,212	2,266	2,320	2,374	2,428	2,482	2,536	2,590	2,644	
27													1,566	1,622	1,678	1,734	1,790	1,846	1,902	1,958	2,014	2,070	2,126	2,182	2,238	2,294	2,350	2,406	2,462	2,518	2,574	2,630	2,686	2,742	
28														1,680	1,738	1,796	1,854	1,912	1,970	2,028	2,086	2,144	2,202	2,260	2,318	2,376	2,434	2,492	2,550	2,608	2,666	2,724	2,782	2,840	
29															1,798	1,858	1,918	1,978	2,038	2,098	2,158	2,218	2,278	2,338	2,398	2,458	2,518	2,578	2,638	2,698	2,758	2,818	2,878	2,938	
30																1,920	1,982	2,044	2,106	2,168	2,230	2,292	2,354	2,416	2,478	2,540	2,602	2,664	2,726	2,788	2,850	2,912	2,974	3,036	
31																	2,046	2,110	2,174	2,238	2,302	2,366	2,430	2,494	2,558	2,622	2,686	2,750	2,814	2,878	2,942	3,006	3,070	3,134	
32																		2,176	2,242	2,308	2,374	2,440	2,506	2,572	2,638	2,704	2,770	2,836	2,902	2,968	3,034	3,100	3,166	3,232	
33																			2,310	2,378	2,446	2,514	2,582	2,650	2,718	2,786	2,854	2,922	2,990	3,058	3,126	3,194	3,262	3,330	
34																				2,446	2,518	2,588	2,658	2,728	2,798	2,868	2,938	3,008	3,078	3,148	3,218	3,288	3,358	3,428	
35																					2,590	2,662	2,734	2,806	2,878	2,950	3,022	3,094	3,166	3,238	3,310	3,382	3,454	3,526	
36																						2,736	2,810	2,884	2,958	3,032	3,106	3,180	3,254	3,328	3,402	3,476	3,550	3,624	
37																							2,886	2,962	3,038	3,114	3,190	3,266	3,342	3,418	3,494	3,570	3,646	3,722	
38																								3,040	3,118	3,196	3,274	3,352	3,430	3,508	3,586	3,664	3,742	3,820	
39																									3,198	3,278	3,358	3,438	3,518	3,598	3,678	3,758	3,838	3,918	
40																										3,360	3,442	3,524	3,606	3,688	3,770	3,852	3,934	4,016	
41																											3,526	3,610	3,694	3,778	3,862	3,946	4,030	4,114	
42																												3,696	3,782	3,868	3,954	4,040	4,126	4,212	
43																													3,870	3,958	4,046	4,134	4,222	4,310	
44																														4,048	4,138	4,228	4,318	4,408	
45																															4,230	4,322	4,414	4,506	
46																																4,416	4,510	4,604	
47																																	4,606	4,702	
48																																			4,800

$\frac{1}{4}$  "  $\frac{1}{2}$  "  $\frac{3}{4}$  " 2 "  $\frac{1}{2}$  "  $\frac{3}{4}$  " 2 "  $\frac{1}{2}$  "  $\frac{3}{4}$  " 3 "  $\frac{1}{2}$  " 4 "  $\frac{1}{2}$  " 5 "  $\frac{1}{2}$  " 6 "  $\frac{1}{2}$  " 7 "  $\frac{1}{2}$  " 8 "  $\frac{1}{2}$  "

INCHES-	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	
1-1/4	29.4	10.6	11.9	13.1	14.4	15.6	16.9	18.1	20.6	23.1	25.6	28.1	30.6	33.1	35.6	38.1	40.6	43.1	45.6	48.1	50.6	53.1	55.6	58.1	60.6	63.1	65.6	68.1	70.6	73.1	75.6	78.1	
1-1/2		12.0	13.4	14.8	16.1	17.5	18.9	20.3	23.0	25.8	28.5	31.3	34.0	36.8	39.5	42.3	45.0	47.8	50.5	53.3	56.0	58.8	61.5	64.3	67.0	69.8	72.5	75.3	78.0	80.8	83.5	86.3	
1-3/4			14.9	16.4	17.9	19.4	20.9	22.4	25.4	28.4	31.4	34.4	37.4	40.4	43.4	46.4	49.4	52.4	55.4	58.4	61.4	64.4	67.4	70.4	73.4	76.4	79.4	82.4	85.4	88.4	91.4	94.4	
2				18.0	19.6	21.3	22.9	24.5	27.8	31.0	34.3	37.5	40.8	44.0	47.3	50.5	53.8	57.0	60.3	63.5	66.8	70.0	73.3	76.5	79.8	83.0	86.3	89.5	92.8	96.0	99.3	102.5	
2-1/4					21.4	23.1	24.9	26.6	30.1	33.6	37.1	40.6	44.1	47.6	51.1	54.6	58.1	61.6	65.1	68.6	72.1	75.6	79.1	82.6	86.1	89.6	93.1	96.6	100.1	103.6	107.1	110.6	
2-1/2						25.0	26.9	28.8	32.5	36.3	40.0	43.8	47.5	51.3	55.0	58.8	62.5	66.3	70.0	73.8	77.5	81.3	85.0	88.8	92.5	96.3	100.0	103.8	107.5	111.3	115.0	118.8	
2-3/4							28.9	30.9	34.9	38.9	42.9	46.9	50.9	54.9	58.9	62.9	66.9	70.9	74.9	78.9	82.9	86.9	90.9	94.9	98.9	102.9	106.9	110.9	114.9	118.9	122.9	126.9	
3								33.0	37.3	41.5	45.8	50.0	54.3	58.5	62.8	67.0	71.3	75.5	79.8	84.0	88.3	92.5	96.8	101.0	105.3	109.5	113.8	118.0	122.3	126.5	130.8	135.0	
3-1/2									42.0	46.8	51.5	56.3	61.0	65.8	70.5	75.3	80.0	84.8	89.5	94.3	99.0	103.8	108.5	113.3	118.0	122.8	127.5	132.3	137.0	141.8	146.5	151.3	
4										52.0	57.3	62.5	67.8	73.0	78.3	83.5	88.8	94.0	99.3	104.5	109.8	115.0	120.3	125.5	130.8	136.0	141.3	146.5	151.8	157.0	162.3	167.5	
4-1/2											63.0	68.8	74.5	80.3	86.0	91.8	97.5	103.3	109.0	114.8	120.5	126.3	132.0	137.8	143.5	149.3	155.0	160.8	166.5	172.3	178.0	183.8	
5												75.0	81.3	87.5	93.8	100.0	106.3	112.5	118.8	125.0	131.3	137.5	143.8	150.0	156.3	162.5	168.8	175.0	181.3	187.5	193.8	200.0	
5-1/2													88.0	94.8	101.5	108.3	115.0	121.8	128.5	135.3	142.0	148.8	155.5	162.3	169.0	175.8	182.5	189.3	196.0	202.8	209.5	216.3	
6														102.0	109.3	116.5	123.8	131.0	138.3	145.5	152.8	160.0	167.3	174.5	181.8	189.0	196.3	203.5	210.8	218.0	225.3	232.5	
6-1/2															117.0	124.8	132.5	140.3	148.0	155.8	163.5	171.3	179.0	186.8	194.5	202.3	210.0	217.8	225.5	233.3	241.0	248.8	
7																133.0	141.3	149.5	157.8	166.0	174.3	182.5	190.8	199.0	207.3	215.5	223.8	232.0	240.3	248.5	256.8	265.0	
7-1/2																	150.0	158.8	167.5	176.5	185.0	193.8	202.5	211.3	220.0	228.8	237.5	246.3	255.0	263.8	272.5	281.3	
8																		168.0	177.3	186.5	195.8	205.0	214.3	223.5	232.8	242.0	251.3	260.5	269.8	279.0	288.3	297.5	
8-1/2																			187.0	196.8	206.5	216.3	226.0	235.8	245.5	255.3	265.0	274.8	284.5	294.3	304.0	313.8	
9																				207.0	217.3	227.5	237.8	248.0	258.3	268.5	278.8	289.0	299.3	309.5	319.8	330.0	
9-1/2																					228.0	238.8	249.5	260.3	271.0	281.8	292.5	303.3	314.0	324.8	335.5	346.3	
10																						250.0	261.3	272.5	283.8	295.0	306.3	317.5	328.8	340.0	351.3	362.5	
10-1/2																							273.0	284.8	296.5	308.3	320.0	331.8	343.5	355.3	367.0	378.8	
11																								297.0	309.3	321.5	333.8	346.0	358.3	370.5	382.8	395.0	
11-1/2																									322.0	334.4	347.5	360.3	373.0	385.8	398.5	411.3	
12																										348.0	361.3	374.5	387.8	401.0	414.3	427.5	
12-1/2																											375.0	388.8	402.5	416.3	430.0	443.8	
13																												403.0	417.3	431.5	445.8	460.0	
13-1/2																													432.0	446.8	461.5	476.3	
14																														462.0	477.3	492.5	
14-1/2																															493.0	508.8	
15																																525.0	









INCHES	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16
1-1/2	13.5	15.0	16.5	18.0	19.5	21.0	22.5	25.5	28.5	31.5	34.5	37.5	40.5	43.5	46.5	49.5	52.5	55.5	58.5	61.5	64.5	67.5	70.5	73.5	76.5	79.5	82.5	85.5	88.5	91.5	94.5	100.5
1-3/4		16.6	18.3	19.9	21.5	23.1	24.8	28.0	31.3	34.5	37.8	41.0	44.3	47.5	50.8	54.0	57.3	60.5	63.8	67.0	70.3	73.5	76.8	80.0	83.3	86.5	89.8	93.0	96.3	99.5	102.8	109.3
2			20.0	21.8	23.5	25.3	27.0	30.5	34.0	37.5	41.0	44.5	48.0	51.5	55.0	58.5	62.0	65.5	69.0	72.5	76.0	79.5	83.0	86.5	90.0	93.5	97.0	100.5	104.0	107.5	111.0	118.0
2-1/4				23.6	25.5	27.4	29.3	33.0	36.8	40.5	44.3	48.0	51.8	55.5	59.3	63.0	66.8	70.5	74.3	78.0	81.8	85.5	89.3	93.0	96.8	100.5	104.3	108.0	111.8	115.5	119.3	126.8
2-1/2					27.5	29.5	31.5	35.5	39.5	43.5	47.5	51.5	55.5	59.5	63.5	67.5	71.5	75.5	79.5	83.5	87.5	91.5	95.5	99.5	103.5	107.5	111.5	115.5	119.5	123.5	127.5	135.5
2-3/4						31.6	33.8	38.0	42.3	46.5	50.8	55.0	59.3	63.5	67.8	72.0	76.3	80.5	84.8	89.0	93.3	97.5	101.8	106.0	110.3	114.5	118.8	123.0	127.3	131.5	135.8	144.3
3							36.0	40.5	45.0	49.5	54.0	58.5	63.0	67.5	72.0	76.5	81.0	85.5	90.0	94.5	99.0	103.5	108.0	112.5	117.0	121.5	126.0	130.5	135.0	139.5	144.0	153.0
3-1/2								45.5	50.5	55.5	60.5	65.5	70.5	75.5	80.5	85.5	90.5	95.5	100.5	105.5	110.5	115.5	120.5	125.5	130.5	135.5	140.5	145.5	150.5	155.5	160.5	170.5
4									56.0	61.5	67.0	72.5	78.0	83.5	89.0	94.5	100.0	105.5	111.0	116.5	122.0	127.5	133.0	138.5	144.0	149.5	155.0	160.5	166.0	171.5	177.0	188.0
4-1/2										67.5	73.5	79.5	85.5	91.5	97.5	103.5	109.5	115.5	121.5	127.5	133.5	139.5	145.5	151.5	157.5	163.5	169.5	175.5	181.5	187.5	193.5	205.5
5											80.0	86.5	93.0	99.5	106.0	112.5	119.0	125.5	132.0	138.5	145.0	151.5	158.0	164.5	171.0	177.5	184.0	190.5	197.0	203.5	210.0	223.0
5-1/2												93.5	100.5	107.5	114.5	121.5	128.5	135.5	142.5	149.5	156.5	163.5	170.5	177.5	184.5	191.5	198.5	205.5	212.5	219.5	226.5	240.5
6													108.0	115.5	123.0	130.5	138.0	145.5	153.0	160.5	168.0	175.5	183.0	190.5	198.0	205.5	213.0	220.5	228.0	235.5	243.0	258.0
6-1/2														123.5	131.5	139.5	147.5	155.5	163.5	171.5	179.5	187.5	195.5	203.5	211.5	219.5	227.5	235.5	243.5	251.5	259.5	275.5
7															140.0	148.5	157.0	165.5	174.0	182.5	191.0	199.5	208.0	216.5	225.0	233.5	242.0	250.5	259.0	267.5	276.0	293.0
7-1/2																157.5	166.5	175.5	184.5	193.5	202.5	211.5	220.5	229.5	238.5	247.5	256.5	265.5	274.5	283.5	292.5	310.5
8																	176.0	185.5	195.0	204.5	214.0	223.5	233.0	242.5	252.0	261.5	271.0	280.5	290.0	299.5	309.0	328.0
8-1/2																		195.5	205.5	215.5	225.5	235.5	245.5	255.5	265.5	275.5	285.5	295.5	305.5	315.5	325.5	345.5
9																			216.0	226.5	237.0	247.5	258.0	268.5	279.0	289.5	300.0	310.5	321.0	331.5	342.0	363.0
9-1/2																				237.5	248.5	259.5	270.5	281.5	292.5	303.5	314.5	325.5	336.5	347.5	358.5	380.5
10																					260.0	271.5	283.0	294.5	306.0	317.5	329.0	340.5	352.0	363.5	375.0	398.0
10-1/2																						283.5	295.5	307.5	319.5	331.5	343.5	355.5	367.5	379.5	391.5	415.5
11																							308.0	320.5	333.0	345.5	358.0	370.5	383.0	395.5	408.0	433.0
11-1/2																								333.5	346.5	359.5	372.5	385.5	398.5	411.5	424.5	450.5
12																									360.0	373.5	387.0	400.5	414.0	427.5	441.0	468.0
12-1/2																										387.5	401.5	415.5	429.5	443.5	457.5	485.5
13																											416.0	430.5	445.0	459.5	474.0	503.0
13-1/2																												445.5	460.5	475.5	490.5	520.5
14																													476.0	491.5	507.0	538.0
14-1/2																														507.5	523.5	555.5
15																															540.0	573.0
16																																608.0



17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
106.5	112.5	118.5	124.5	130.5	136.5	142.5	148.5	154.5	160.5	166.5	172.5	178.5	184.5	190.5	196.5	202.5	208.5	214.5	220.5	226.5	232.5	238.5	244.5	250.5	256.5	262.5	268.5	274.5	280.5	286.5	292.5	1-1/2
125.8	128.3	128.8	135.3	141.8	148.3	154.8	161.3	167.8	174.3	180.8	187.3	193.8	200.3	206.8	213.3	219.8	226.3	232.8	239.3	245.8	252.3	258.8	265.3	271.8	278.3	284.8	291.3	297.8	304.3	310.8	317.3	1-3/4
125.0	132.0	139.0	146.0	153.0	160.0	167.0	174.0	181.0	188.0	195.0	202.0	209.0	216.0	223.0	230.0	237.0	244.0	251.0	258.0	265.0	272.0	279.0	286.0	293.0	300.0	307.0	314.0	321.0	328.0	335.0	342.0	2
134.3	141.8	149.3	156.8	164.3	171.8	179.3	186.8	194.3	201.8	209.3	216.8	224.3	231.8	239.3	246.8	254.3	261.8	269.3	276.8	284.3	291.8	299.3	306.8	314.3	321.8	329.3	336.8	344.3	351.8	359.3	366.8	2-1/4
143.5	151.5	159.5	167.5	175.5	183.5	191.5	199.5	207.5	215.5	223.5	231.5	239.5	247.5	255.5	263.5	271.5	279.5	287.5	295.5	303.5	311.5	319.5	327.5	335.5	343.5	351.5	359.5	367.5	375.5	383.5	391.5	2-1/2
152.8	161.3	169.8	178.3	186.8	195.3	203.8	212.3	220.8	229.3	237.8	246.3	254.8	263.3	271.8	280.3	288.8	297.3	305.8	314.3	322.8	331.3	339.8	348.3	356.8	365.3	373.8	382.3	390.8	399.3	407.8	416.3	2-1/4
162.0	171.0	180.0	189.0	198.0	207.0	216.0	225.0	234.0	243.0	252.0	261.0	270.0	279.0	288.0	297.0	306.0	315.0	324.0	333.0	342.0	351.0	360.0	369.0	378.0	387.0	396.0	405.0	414.0	423.0	432.0	441.0	3
180.5	190.5	200.5	210.5	220.5	230.5	240.5	250.5	260.5	270.5	280.5	290.5	300.5	310.5	320.5	330.5	340.5	350.5	360.5	370.5	380.5	390.5	400.5	410.5	420.5	430.5	440.5	450.5	460.5	470.5	480.5	490.5	3-1/2
199.0	210.0	221.0	232.0	243.0	254.0	265.0	276.0	287.0	298.0	309.0	320.0	331.0	342.0	353.0	364.0	375.0	386.0	397.0	408.0	419.0	430.0	441.0	452.0	463.0	474.0	485.0	496.0	507.0	518.0	529.0	540.0	4
217.5	229.5	241.5	253.5	265.5	277.5	289.5	301.5	313.5	325.5	337.5	349.5	361.5	373.5	385.5	397.5	409.5	421.5	433.5	445.5	457.5	469.5	481.5	493.5	505.5	517.5	529.5	541.5	553.5	565.5	577.5	589.5	4-1/2
236.0	249.0	262.0	275.0	288.0	301.0	314.0	327.0	340.0	353.0	366.0	379.0	392.0	405.0	418.0	431.0	444.0	457.0	470.0	483.0	496.0	509.0	522.0	535.0	548.0	561.0	574.0	587.0	600.0	613.0	626.0	639.0	5
254.5	268.5	282.5	296.5	310.5	324.5	338.5	352.5	366.5	380.5	394.5	408.5	422.5	436.5	450.5	464.5	478.5	492.5	506.5	520.5	534.5	548.5	562.5	576.5	590.5	604.5	618.5	632.5	646.5	660.5	674.5	688.5	5-1/2
273.0	288.0	303.0	318.0	333.0	348.0	363.0	378.0	393.0	408.0	423.0	438.0	453.0	468.0	483.0	498.0	513.0	528.0	543.0	558.0	573.0	588.0	603.0	618.0	633.0	648.0	663.0	678.0	693.0	708.0	723.0	738.0	6
291.5	307.5	323.5	339.5	355.5	371.5	387.5	403.5	419.5	435.5	451.5	467.5	483.5	499.5	515.5	531.5	547.5	563.5	579.5	595.5	611.5	627.5	643.5	659.5	675.5	691.5	707.5	723.5	739.5	755.5	771.5	787.5	6-1/2
310.0	327.0	344.0	361.0	378.0	395.0	412.0	429.0	446.0	463.0	480.0	497.0	514.0	531.0	548.0	565.0	582.0	599.0	616.0	633.0	650.0	667.0	684.0	701.0	718.0	735.0	752.0	769.0	786.0	803.0	820.0	837.0	7
328.5	346.5	364.5	382.5	400.5	418.5	436.5	454.5	472.5	490.5	508.5	526.5	544.5	562.5	580.5	598.5	616.5	634.5	652.5	670.5	688.5	706.5	724.5	742.5	760.5	778.5	796.5	814.5	832.5	850.5	868.5	886.5	7-1/2
347.0	366.0	385.0	404.0	423.0	442.0	461.0	480.0	499.0	518.0	537.0	556.0	575.0	594.0	613.0	632.0	651.0	670.0	689.0	708.0	727.0	746.0	765.0	784.0	803.0	822.0	841.0	860.0	879.0	898.0	917.0	936.0	8
365.5	385.5	405.5	425.5	445.5	465.5	485.5	505.5	525.5	545.5	565.5	585.5	605.5	625.5	645.5	665.5	685.5	705.5	725.5	745.5	765.5	785.5	805.5	825.5	845.5	865.5	885.5	905.5	925.5	945.5	965.5	985.5	8-1/2
384.0	405.0	426.0	447.0	468.0	489.0	510.0	531.0	552.0	573.0	594.0	615.0	636.0	657.0	678.0	699.0	720.0	741.0	762.0	783.0	804.0	825.0	846.0	867.0	888.0	909.0	930.0	951.0	972.0	993.0	1,014	1,035	9
402.5	424.5	446.5	468.5	490.5	512.5	534.5	556.5	578.5	600.5	622.5	644.5	666.5	688.5	710.5	732.5	754.5	776.5	798.5	820.5	842.5	864.5	886.5	908.5	930.5	952.5	974.5	996.5	1,019	1,041	1,063	1,085	9-1/2
421.0	444.0	467.0	490.0	513.0	536.0	559.0	582.0	605.0	628.0	651.0	674.0	697.0	720.0	743.0	766.0	789.0	812.0	835.0	858.0	881.0	904.0	927.0	950.0	973.0	996.0	1,019	1,042	1,065	1,088	1,111	1,134	10
439.5	463.5	487.5	511.5	535.5	559.5	583.5	607.5	631.5	655.5	679.5	703.5	727.5	751.5	775.5	799.5	823.5	847.5	871.5	895.5	919.5	943.5	967.5	991.5	1,016	1,040	1,064	1,088	1,112	1,136	1,160	1,184	10-1/2
458.0	483.0	508.0	533.0	558.0	583.0	608.0	633.0	658.0	683.0	708.0	733.0	758.0	783.0	808.0	833.0	858.0	883.0	908.0	933.0	958.0	983.0	1,008	1,033	1,058	1,083	1,108	1,133	1,158	1,183	1,208	1,233	11
476.5	502.5	528.5	554.5	580.5	606.5	632.5	658.5	684.5	710.5	736.5	762.5	788.5	814.5	840.5	866.5	892.5	918.5	944.5	970.5	996.5	1,023	1,049	1,075	1,101	1,127	1,153	1,179	1,205	1,231	1,257	1,283	11-1/2
495.0	522.0	549.0	576.0	603.0	630.0	657.0	684.0	711.0	738.0	765.0	792.0	819.0	846.0	873.0	900.0	927.0	954.0	981.0	1,008	1,035	1,062	1,089	1,116	1,143	1,170	1,197	1,224	1,251	1,278	1,305	1,332	12
513.5	541.5	569.5	597.5	625.5	653.5	681.5	709.5	737.5	765.5	793.5	821.5	849.5	877.5	905.5	933.5	961.5	989.5	1,018	1,046	1,074	1,102	1,130	1,158	1,186	1,214	1,242	1,270	1,298	1,326	1,354	1,382	12-1/2
532.0	561.0	590.0	619.0	648.0	677.0	706.0	735.0	764.0	793.0	822.0	851.0	880.0	909.0	938.0	967.0	996.0	1,025	1,054	1,083	1,112	1,141	1,170	1,199	1,228	1,257	1,286	1,315	1,344	1,373	1,402	1,431	13
550.5	580.5	610.5	640.5	670.5	700.5	730.5	760.5	790.5	820.5	850.5	880.5	910.5	940.5	970.5	1,001	1,031	1,061	1,091	1,121	1,151	1,181	1,211	1,241	1,271	1,301	1,331	1,361	1,391	1,421	1,451	1,481	13-1/2
569.0	600.0	631.0	662.0	693.0	724.0	755.0	786.0	817.0	848.0	879.0	910.0	941.0	972.0	1,003	1,034	1,065	1,096	1,127	1,158	1,189	1,220	1,251	1,282	1,313	1,344	1,375	1,406	1,437	1,468	1,499	1,530	14
587.5	619.5	651.5	683.5	715.5	747.5	779.5	811.5	843.5	875.5	907.5	939.5	971.5	1,004	1,036	1,068	1,100	1,132	1,164	1,196	1,228	1,260	1,292	1,324	1,356	1,388	1,420	1,452	1,484	1,516	1,548	1,580	14-1/2
606.0	639.0	672.0	705.0	738.0	771.0	804.0	837.0	870.0	903.0	936.0	969.0	1,002	1,035	1,068	1,101	1,134	1,167	1,200	1,233	1,266	1,299	1,332	1,365	1,398	1,431	1,464	1,497	1,530	1,563	1,596	1,629	15
643.0	678.0	713.0	748.0	783.0	818.0	853.0	888.0	923.0	958.0	993.0	1,028	1,063	1,098	1,133	1,168	1,203	1,238	1,273	1,308	1,343	1,378	1,413	1,448	1,483	1,518	1,553	1,588	1,623	1,658	1,693	1,728	16

$\frac{1}{12}$   $\frac{1}{8}$   $\frac{1}{4}$   $\frac{1}{2}$   $1$   $1\frac{1}{4}$   $1\frac{1}{2}$   $1\frac{3}{4}$   $2$   $2\frac{1}{4}$   $2\frac{1}{2}$   $2\frac{3}{4}$   $3$   $3\frac{1}{2}$   $4$   $4\frac{1}{2}$   $5$   $5\frac{1}{2}$   $6$   $6\frac{1}{2}$   $7$   $7\frac{1}{2}$   $8$   $8\frac{1}{2}$



INCHES →	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
17	680.0	717.0	754.0	791.0	828.0	865.0	902.0	939.0	976.0	1,013	1,050	1,087	1,124	1,161	1,198	1,235	1,272	1,309	1,346	1,383	1,420	1,457	1,494	1,531	1,568	1,605	1,642	1,679	1,716	1,753	1,790	1,827	
18		756.0	795.0	834.0	873.0	912.0	951.0	990.0	1,029	1,068	1,107	1,146	1,185	1,224	1,263	1,302	1,341	1,380	1,419	1,458	1,497	1,536	1,575	1,614	1,653	1,692	1,731	1,770	1,809	1,848	1,887	1,926	
19			836.0	877.0	918.0	959.0	1,000	1,041	1,082	1,123	1,164	1,205	1,246	1,287	1,328	1,369	1,410	1,451	1,492	1,533	1,574	1,615	1,656	1,697	1,738	1,779	1,820	1,861	1,902	1,943	1,984	2,025	
20				920.0	963.0	1,006	1,049	1,092	1,135	1,178	1,221	1,264	1,307	1,350	1,393	1,436	1,479	1,522	1,565	1,608	1,651	1,694	1,737	1,780	1,823	1,866	1,909	1,952	1,995	2,038	2,081	2,124	
21					1,008	1,053	1,098	1,143	1,188	1,233	1,278	1,323	1,368	1,413	1,458	1,503	1,548	1,593	1,638	1,683	1,728	1,773	1,818	1,863	1,908	1,953	1,998	2,043	2,088	2,133	2,178	2,223	
22						1,100	1,147	1,194	1,241	1,288	1,335	1,382	1,429	1,476	1,523	1,570	1,617	1,664	1,711	1,758	1,805	1,852	1,899	1,946	1,993	2,040	2,087	2,134	2,181	2,228	2,275	2,322	
23							1,196	1,245	1,294	1,343	1,392	1,441	1,490	1,539	1,588	1,637	1,686	1,735	1,784	1,833	1,882	1,931	1,980	2,029	2,078	2,127	2,176	2,225	2,274	2,323	2,372	2,421	
24								1,296	1,347	1,398	1,449	1,500	1,551	1,602	1,653	1,704	1,755	1,806	1,857	1,908	1,959	2,010	2,061	2,112	2,163	2,214	2,265	2,316	2,367	2,418	2,469	2,520	
25									1,400	1,453	1,506	1,559	1,612	1,665	1,718	1,771	1,824	1,877	1,930	1,983	2,036	2,089	2,142	2,195	2,248	2,301	2,354	2,407	2,460	2,513	2,566	2,619	
26										1,508	1,563	1,618	1,673	1,728	1,783	1,838	1,893	1,948	2,003	2,058	2,113	2,168	2,223	2,278	2,333	2,388	2,443	2,498	2,553	2,608	2,663	2,718	
27											1,620	1,677	1,734	1,791	1,848	1,905	1,962	2,019	2,076	2,133	2,190	2,247	2,304	2,361	2,418	2,475	2,532	2,589	2,646	2,703	2,760	2,817	
28												1,736	1,795	1,854	1,913	1,972	2,031	2,090	2,149	2,208	2,267	2,326	2,385	2,444	2,503	2,562	2,621	2,680	2,739	2,798	2,857	2,916	
29													1,856	1,917	1,978	2,039	2,100	2,161	2,222	2,283	2,344	2,405	2,466	2,527	2,588	2,649	2,710	2,771	2,832	2,893	2,954	3,015	
30														1,980	2,043	2,106	2,169	2,232	2,295	2,358	2,421	2,484	2,547	2,610	2,673	2,736	2,799	2,862	2,925	2,988	3,051	3,114	
31															2,108	2,173	2,238	2,303	2,368	2,433	2,498	2,563	2,628	2,693	2,758	2,823	2,888	2,953	3,018	3,083	3,148	3,213	
32																2,240	2,307	2,374	2,441	2,508	2,575	2,642	2,709	2,776	2,843	2,910	2,977	3,044	3,111	3,178	3,245	3,312	
33																	2,376	2,445	2,514	2,583	2,652	2,721	2,790	2,859	2,928	2,997	3,066	3,135	3,204	3,273	3,342	3,411	
34																		2,516	2,587	2,658	2,729	2,800	2,871	2,942	3,013	3,084	3,155	3,226	3,297	3,368	3,439	3,510	
35																			2,660	2,733	2,806	2,879	2,952	3,025	3,098	3,171	3,244	3,317	3,390	3,463	3,536	3,609	
36																				2,808	2,883	2,958	3,033	3,108	3,183	3,258	3,333	3,408	3,483	3,558	3,633	3,708	
37																					2,960	3,037	3,114	3,191	3,268	3,345	3,422	3,499	3,576	3,653	3,730	3,807	
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$1\frac{3}{4}$     $2$     $2\frac{1}{4}$     $2\frac{1}{2}$     $2\frac{3}{4}$     $3$     $3\frac{1}{2}$     $4$     $4\frac{1}{2}$     $5$     $5\frac{1}{2}$     $6$     $6\frac{1}{2}$     $7$     $7\frac{1}{2}$     $8$     $8\frac{1}{2}$

INCHES	1-3/4	2	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	
1-3/4	18.4	20.1	21.9	23.6	25.4	27.1	30.6	34.1	37.6	41.1	44.6	48.1	51.6	55.1	58.6	62.1	65.6	69.1	72.6	76.1	79.6	83.1	86.6	90.1	93.6	97.1	100.6	104.1	107.6	111.1	114.6	
2	22.0	23.9	25.8	27.6	29.5	33.3	37.0	40.8	44.5	48.3	52.0	55.8	59.5	63.3	67.0	70.8	74.5	78.3	82.0	85.8	89.5	93.3	97.0	100.8	104.5	108.3	112.0	115.8	119.5	123.0	126.0	
2-1/4		25.9	27.9	29.9	31.9	35.9	39.9	43.9	47.9	51.9	55.9	59.9	63.9	67.9	71.9	75.9	79.9	83.9	87.9	91.9	95.9	99.9	103.9	107.9	111.9	115.9	119.9	123.9	127.9	131.9	135.9	
2-1/2			30.0	32.1	34.3	38.5	42.8	47.0	51.3	55.5	59.8	64.0	68.3	72.5	76.8	81.0	85.3	89.5	93.8	98.0	102.3	106.5	110.8	115.0	119.3	123.5	127.8	132.0	136.3	140.6	144.8	
2-3/4				34.4	36.6	41.1	45.6	50.1	54.6	59.1	63.6	68.1	72.6	77.1	81.6	86.1	90.6	95.1	99.6	104.1	108.6	113.1	117.6	122.1	126.6	131.1	135.6	140.1	144.6	149.1	153.6	
3					39.0	43.8	48.5	53.3	58.0	62.8	67.5	72.3	77.0	81.8	86.5	91.3	96.0	100.8	105.5	110.3	115.0	119.8	124.5	129.3	134.0	138.8	143.5	148.3	153.0	157.8	162.5	
3-1/2						49.0	54.3	59.5	64.8	70.0	75.3	80.5	85.8	91.0	96.3	101.5	106.8	112.0	117.3	122.5	127.8	133.0	138.3	143.5	148.8	154.0	159.3	164.5	169.8	175.0	180.3	
4							60.0	65.8	71.5	77.3	83.0	88.8	94.5	100.3	106.0	111.8	117.5	123.3	129.0	134.8	140.5	146.3	152.0	157.8	163.5	169.3	175.0	180.8	186.5	192.0	198.0	
4-1/2								72.0	78.3	84.5	90.8	97.0	103.3	109.5	115.8	122.0	128.3	134.5	140.8	147.0	153.3	159.5	165.8	172.0	178.3	184.5	190.8	197.0	203.3	209.5	215.8	
5									85.0	91.8	98.5	105.3	112.0	118.8	125.5	132.3	139.0	145.8	152.5	159.3	166.0	172.8	179.5	186.3	193.0	199.8	206.5	213.3	220.0	226.8	233.5	
5-1/2										99.0	106.3	113.5	120.8	128.0	135.3	142.5	149.8	157.0	164.3	171.5	178.8	186.0	193.3	200.5	207.8	215.0	222.3	229.5	236.8	244.0	251.3	
6											114.0	121.8	129.5	137.3	145.0	152.8	160.5	168.3	176.0	183.8	191.5	199.3	207.0	214.8	222.5	230.3	238.0	245.8	253.5	261.0	269.0	
6-1/2												130.0	138.3	146.5	154.8	163.0	171.3	179.5	187.8	196.0	204.3	212.5	220.8	229.0	237.3	245.5	253.8	262.0	270.3	278.6	286.8	
7													147.0	155.8	164.5	173.3	182.0	190.8	199.5	208.3	217.0	225.8	234.5	243.3	252.0	260.8	269.5	278.3	287.0	295.8	304.5	
7-1/2														165.0	174.3	183.5	192.8	202.0	211.3	220.5	229.8	239.0	248.3	257.5	266.8	276.0	285.3	294.5	303.8	312.3	320.3	
8															184.0	193.8	203.5	213.3	223.0	232.8	242.5	252.3	262.0	271.8	281.5	291.3	301.0	310.8	320.5	330.0	340.0	
8-1/2																204.0	214.3	224.5	234.8	245.0	255.3	265.5	275.8	286.0	296.3	306.5	316.8	327.0	337.3	347.5	357.8	
9																	225.0	235.8	246.5	257.3	268.0	278.8	289.5	300.3	311.0	321.8	332.5	343.3	354.0	364.5	375.5	
9-1/2																		247.0	258.3	269.5	280.8	292.0	303.3	314.5	325.8	337.0	348.3	359.5	370.8	382.0	393.3	
10																			270.0	281.8	293.5	305.3	317.0	328.8	340.5	352.3	364.0	375.8	387.5	399.0	411.0	
10-1/2																				294.0	306.3	318.5	330.8	343.0	355.3	367.5	379.8	392.0	404.3	416.5	428.8	
11																					319.0	331.8	344.5	357.3	370.0	382.8	395.5	408.3	421.0	433.8	446.5	
11-1/2																						345.0	358.3	371.5	384.8	398.0	411.3	424.5	437.8	451.0	464.3	
12																							372.0	385.8	399.5	413.3	427.0	440.8	454.5	468.0	482.0	
12-1/2																								400.0	414.3	428.5	442.8	457.0	471.3	485.5	499.8	514.0
13																									429.0	443.8	458.5	473.3	488.0	502.8	517.5	532.0
13-1/2																										459.0	474.3	489.5	504.8	520.0	535.3	550.5
14																											490.0	505.8	521.5	537.0	552.5	568.0
14-1/2																													522.0	538.3	554.5	570.8
15																														555.0	571.5	588.0
16																															588.0	604.0



17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	-INCHES
125.1	132.1	139.1	146.1	153.1	160.1	167.1	174.1	181.1	188.1	195.1	202.1	209.1	216.1	223.1	230.1	237.1	244.1	251.1	258.1	265.1	272.1	279.1	286.1	293.1	300.1	307.1	314.1	321.1	328.1	335.1	342.1	1-3/4
134.5	142.0	149.5	157.0	164.5	172.0	179.5	187.0	194.5	202.0	209.5	217.0	224.5	232.0	239.5	247.0	254.5	262.0	269.5	277.0	284.5	292.0	299.5	307.0	314.5	322.0	329.5	337.0	344.5	352.0	359.5	367.0	2
143.9	151.9	159.9	167.9	175.9	183.9	191.9	199.9	207.9	215.9	223.9	231.9	239.9	247.9	255.9	263.9	271.9	279.9	287.9	295.9	303.9	311.9	319.9	327.9	335.9	343.9	351.9	359.9	367.9	375.9	383.9	391.9	2-1/4
153.3	161.8	170.3	178.8	187.3	195.8	204.3	212.8	221.3	229.8	238.3	246.8	255.3	263.8	272.3	280.8	289.3	297.8	306.3	314.8	323.3	331.8	340.3	348.8	357.3	365.8	374.3	382.8	391.3	399.8	408.3	416.8	2-1/2
162.6	171.6	180.6	189.6	198.6	207.6	216.6	225.6	234.6	243.6	252.6	261.6	270.6	279.6	288.6	297.6	306.6	315.6	324.6	333.6	342.6	351.6	360.6	369.6	378.6	387.6	396.6	405.6	414.6	423.6	432.6	441.6	2-3/4
172.0	181.5	191.0	200.5	210.0	219.5	229.0	238.5	248.0	257.5	267.0	276.5	286.0	295.5	305.0	314.5	324.0	333.5	343.0	352.5	362.0	371.5	381.0	390.5	400.0	409.5	419.0	428.5	438.0	447.5	457.0	466.5	3
190.8	201.3	211.8	222.3	232.8	243.3	253.8	264.3	274.8	285.3	295.8	306.3	316.8	327.3	337.8	348.3	358.8	369.3	379.8	390.3	400.8	411.3	421.8	432.3	442.8	453.3	463.8	474.3	484.8	495.3	505.8	516.3	3-1/2
209.5	221.0	232.5	244.0	255.5	267.0	278.5	290.0	301.5	313.0	324.5	336.0	347.5	359.0	370.5	382.0	393.5	405.0	416.5	428.0	439.5	451.0	462.5	474.0	485.5	497.0	508.5	520.0	531.5	543.0	554.5	566.0	4
228.3	240.8	253.3	265.8	278.3	290.8	303.3	315.8	328.3	340.8	353.3	365.8	378.3	390.8	403.3	415.8	428.3	440.8	453.3	465.8	478.3	490.8	503.3	515.8	528.3	540.8	553.3	565.8	578.3	590.8	603.3	615.8	4-1/2
247.0	260.5	274.0	287.5	301.0	314.5	328.0	341.5	355.0	368.5	382.0	395.5	409.0	422.5	436.0	449.5	463.0	476.5	490.0	503.5	517.0	530.5	544.0	557.5	571.0	584.5	598.0	611.5	625.0	638.5	652.0	665.5	5
265.8	280.3	294.8	309.3	323.8	338.3	352.8	367.3	381.8	396.3	410.8	425.3	439.8	454.3	468.8	483.3	497.8	512.3	526.8	541.3	555.8	570.3	584.8	599.3	613.8	628.3	642.8	657.3	671.8	686.3	700.8	715.3	5-1/2
284.5	300.0	315.5	331.0	346.5	362.0	377.5	393.0	408.5	424.0	439.5	455.0	470.5	486.0	501.5	517.0	532.5	548.0	563.5	579.0	594.5	610.0	625.5	641.0	656.5	672.0	687.5	703.0	718.5	734.0	749.5	765.0	6
303.3	319.8	336.3	352.8	369.3	385.8	402.3	418.8	435.3	451.8	468.3	484.8	501.3	517.8	534.3	550.8	567.3	583.8	600.3	616.8	633.3	649.8	666.3	682.8	699.3	715.8	732.3	748.8	765.3	781.8	798.3	814.8	6-1/2
322.0	339.5	357.0	374.5	392.0	409.5	427.0	444.5	462.0	479.5	497.0	514.5	532.0	549.5	567.0	584.5	602.0	619.5	637.0	654.5	672.0	689.5	707.0	724.5	742.0	759.5	777.0	794.5	812.0	829.5	847.0	864.5	7
340.8	359.3	377.8	396.3	414.8	433.3	451.8	470.3	488.8	507.3	525.8	544.3	562.8	581.3	599.8	618.3	636.8	655.3	673.8	692.3	710.8	729.3	747.8	766.3	784.8	803.3	821.8	840.3	858.8	877.3	895.8	914.3	7-1/2
359.5	379.0	398.5	418.0	437.5	457.0	476.5	496.0	515.5	535.0	554.5	574.0	593.5	613.0	632.5	652.0	671.5	691.0	710.5	730.0	749.5	769.0	788.5	808.0	827.5	847.0	866.5	886.0	905.5	925.0	944.5	964.0	8
378.3	398.8	419.3	439.8	460.3	480.8	501.3	521.8	542.3	562.8	583.3	603.8	624.3	644.8	665.3	685.8	706.3	726.8	747.3	767.8	788.3	808.8	829.3	849.8	870.3	890.8	911.3	931.8	952.3	972.8	993.3	1,014	8-1/2
397.0	418.5	440.0	461.5	483.0	504.5	526.0	547.5	569.0	590.5	612.0	633.5	655.0	676.5	698.0	719.5	741.0	762.5	784.0	805.5	827.0	848.5	870.0	891.5	913.0	934.5	956.0	977.5	999.0	1,021	1,042	1,064	9
415.8	438.3	460.8	483.3	505.8	528.3	550.8	573.3	595.8	618.3	640.8	663.3	685.8	708.3	730.8	753.3	775.8	798.3	820.8	843.3	865.8	888.3	910.8	933.3	955.8	978.3	1,001	1,023	1,046	1,068	1,091	1,113	9-1/2
434.5	458.0	481.5	505.0	528.5	552.0	575.5	599.0	622.5	646.0	669.5	693.0	716.5	740.0	763.5	787.0	810.5	834.0	857.5	881.0	904.5	928.0	951.5	975.0	998.5	1,022	1,046	1,069	1,093	1,116	1,140	1,163	10
453.3	477.8	503.3	526.8	551.3	575.8	600.3	624.8	649.3	673.8	698.3	722.8	747.3	771.8	796.3	820.8	845.3	869.8	894.3	918.8	943.3	967.8	992.3	1,017	1,041	1,066	1,090	1,115	1,139	1,164	1,188	1,213	10-1/2
472.0	497.5	523.0	548.5	574.0	599.5	625.0	650.5	676.0	701.5	727.0	752.5	778.0	803.5	829.0	854.5	880.0	905.5	931.0	956.5	982.0	1,008	1,033	1,059	1,084	1,110	1,135	1,161	1,186	1,212	1,237	1,263	11
490.8	517.3	543.8	570.3	596.8	623.3	649.8	676.3	702.8	729.3	755.8	782.3	808.8	835.3	861.8	888.3	914.8	941.3	967.8	994.3	1,021	1,047	1,074	1,100	1,127	1,153	1,180	1,206	1,233	1,259	1,286	1,312	11-1/2
509.5	537.0	564.5	592.0	619.5	647.0	674.5	702.0	729.5	757.0	784.5	812.0	839.5	867.0	894.5	922.0	949.5	977.0	1,005	1,032	1,060	1,087	1,115	1,142	1,170	1,197	1,225	1,252	1,280	1,307	1,335	1,362	12
528.3	556.8	585.3	613.8	642.3	670.8	699.3	727.8	756.3	784.8	813.3	841.8	870.3	898.8	927.3	955.8	984.3	1,013	1,041	1,070	1,098	1,127	1,155	1,184	1,212	1,241	1,269	1,298	1,326	1,355	1,383	1,412	12-1/2
547.0	576.5	606.0	635.5	665.0	694.5	724.0	753.5	783.0	812.5	842.0	871.5	901.0	930.5	960.0	989.5	1,019	1,049	1,078	1,108	1,137	1,167	1,196	1,226	1,255	1,285	1,314	1,344	1,373	1,403	1,432	1,462	13
565.8	596.3	626.8	657.3	687.8	718.3	748.8	779.3	809.8	840.3	870.8	901.3	931.8	962.3	992.8	1,023	1,054	1,084	1,115	1,145	1,176	1,206	1,237	1,268	1,298	1,328	1,359	1,389	1,420	1,450	1,481	1,511	13-1/2
584.5	616.0	647.5	679.0	710.5	742.0	773.5	805.0	836.5	868.0	899.5	931.0	962.5	994.0	1,026	1,057	1,089	1,120	1,152	1,183	1,215	1,246	1,278	1,309	1,341	1,372	1,404	1,435	1,467	1,498	1,530	1,561	14
603.3	635.8	668.3	700.8	733.3	765.8	798.3	830.8	863.3	895.8	928.3	960.8	993.3	1,026	1,058	1,091	1,123	1,156	1,188	1,221	1,253	1,286	1,318	1,351	1,383	1,416	1,448	1,481	1,513	1,546	1,578	1,611	14-1/4
622.0	655.5	689.0	722.5	756.0	789.5	823.0	856.5	890.0	923.5	957.0	990.5	1,024	1,058	1,091	1,125	1,158	1,192	1,225	1,259	1,292	1,326	1,359	1,393	1,426	1,460	1,493	1,527	1,560	1,594	1,627	1,661	15
659.5	695.0	730.5	766.0	801.5	837.0	872.5	908.0	943.5	979.0	1,015	1,050	1,086	1,121	1,157	1,192	1,228	1,263	1,299	1,334	1,370	1,405	1,441	1,476	1,512	1,547	1,583	1,618	1,654	1,689	1,725	1,760	16

$\frac{1}{4}$  "  $\frac{1}{2}$  "  $\frac{3}{4}$  "  $1$  "  $1\frac{1}{4}$  "  $1\frac{1}{2}$  "  $1\frac{3}{4}$  "  $2$  "  $2\frac{1}{4}$  "  $2\frac{1}{2}$  "  $2\frac{3}{4}$  "  $3$  "  $3\frac{1}{2}$  "  $4$  "  $4\frac{1}{2}$  "  $5$  "  $5\frac{1}{2}$  "  $6$  "  $6\frac{1}{2}$  "  $7$  "  $7\frac{1}{2}$  "  $8$  "  $8\frac{1}{2}$  "



INCHES →	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
17	697.0	734.5	772.0	809.5	847.0	884.5	922.0	959.5	997.0	1,035	1,072	1,110	1,147	1,185	1,222	1,260	1,297	1,335	1,372	1,410	1,447	1,485	1,522	1,560	1,597	1,635	1,672	1,710	1,747	1,785	1,822	1,860
18		774.0	813.5	853.0	892.5	932.0	971.5	1,011	1,051	1,090	1,130	1,169	1,209	1,248	1,288	1,327	1,367	1,406	1,446	1,485	1,525	1,564	1,604	1,643	1,683	1,722	1,762	1,801	1,841	1,880	1,920	1,959
19			855.0	896.5	938.0	979.5	1,021	1,063	1,104	1,146	1,187	1,229	1,270	1,312	1,353	1,395	1,436	1,478	1,519	1,561	1,602	1,644	1,685	1,727	1,768	1,810	1,851	1,893	1,934	1,976	2,017	2,059
20				940.0	983.5	1,027	1,071	1,114	1,158	1,201	1,245	1,288	1,332	1,375	1,419	1,462	1,506	1,549	1,593	1,636	1,680	1,723	1,767	1,810	1,854	1,897	1,941	1,984	2,028	2,071	2,115	2,158
21					1,029	1,075	1,120	1,166	1,211	1,257	1,302	1,348	1,393	1,439	1,484	1,530	1,575	1,621	1,666	1,712	1,757	1,803	1,848	1,894	1,939	1,985	2,030	2,076	2,121	2,167	2,212	2,258
22						1,122	1,170	1,217	1,265	1,312	1,360	1,407	1,455	1,502	1,550	1,597	1,645	1,692	1,740	1,787	1,835	1,882	1,930	1,977	2,025	2,072	2,120	2,167	2,215	2,262	2,310	2,357
23							1,219	1,269	1,318	1,368	1,417	1,467	1,516	1,567	1,615	1,665	1,714	1,764	1,813	1,863	1,912	1,962	2,011	2,061	2,110	2,160	2,209	2,259	2,308	2,358	2,407	2,457
24								1,320	1,372	1,423	1,475	1,526	1,578	1,629	1,681	1,732	1,784	1,835	1,887	1,938	1,990	2,041	2,093	2,144	2,196	2,247	2,299	2,350	2,402	2,453	2,505	2,556
25									1,425	1,479	1,532	1,586	1,639	1,693	1,746	1,800	1,853	1,907	1,960	2,014	2,067	2,121	2,174	2,228	2,281	2,335	2,388	2,442	2,495	2,549	2,602	2,656
26										1,534	1,590	1,645	1,701	1,756	1,812	1,867	1,923	1,978	2,034	2,089	2,145	2,200	2,256	2,311	2,367	2,422	2,478	2,533	2,589	2,644	2,700	2,755
27											1,647	1,705	1,762	1,820	1,877	1,935	1,992	2,050	2,107	2,165	2,222	2,280	2,337	2,395	2,452	2,510	2,567	2,625	2,682	2,740	2,797	2,855
28												1,764	1,824	1,883	1,943	2,002	2,062	2,121	2,181	2,240	2,300	2,359	2,419	2,478	2,538	2,597	2,657	2,716	2,776	2,835	2,895	2,954
29													1,885	1,947	2,008	2,070	2,131	2,193	2,254	2,316	2,377	2,439	2,500	2,562	2,623	2,685	2,746	2,808	2,870	2,931	2,992	3,054
30														2,010	2,074	2,137	2,201	2,264	2,328	2,391	2,455	2,518	2,582	2,645	2,709	2,772	2,836	2,899	2,963	3,026	3,090	3,153
31															2,139	2,205	2,270	2,336	2,401	2,467	2,532	2,598	2,663	2,729	2,794	2,860	2,925	2,991	3,056	3,122	3,187	3,253
32																2,272	2,340	2,407	2,475	2,542	2,610	2,677	2,745	2,812	2,880	2,947	3,015	3,082	3,150	3,217	3,285	3,352
33																	2,409	2,479	2,548	2,618	2,687	2,757	2,826	2,896	2,965	3,035	3,104	3,174	3,243	3,313	3,382	3,452
34																		2,550	2,622	2,693	2,765	2,836	2,908	2,979	3,051	3,122	3,194	3,265	3,337	3,408	3,480	3,551
35																			2,695	2,769	2,842	2,916	2,989	3,063	3,136	3,210	3,283	3,357	3,430	3,504	3,577	3,651
36																				2,844	2,920	2,995	3,071	3,146	3,222	3,297	3,373	3,448	3,524	3,599	3,675	3,750
37																					2,997	3,075	3,152	3,230	3,307	3,385	3,462	3,540	3,617	3,695	3,772	3,850
38																						3,154	3,234	3,313	3,393	3,472	3,552	3,631	3,711	3,790	3,870	3,949
39																							3,315	3,397	3,478	3,560	3,641	3,723	3,804	3,886	3,967	4,049
40																								3,480	3,564	3,648	3,731	3,814	3,898	3,981	4,065	4,148
41																									3,649	3,735	3,820	3,906	3,991	4,077	4,162	4,248
42																										3,822	3,910	3,997	4,085	4,172	4,260	4,347
43																											3,999	4,089	4,178	4,268	4,357	4,447
44																												4,180	4,272	4,363	4,455	4,546
45																													4,365	4,459	4,552	4,646
46																														4,554	4,650	4,745
47																															4,747	4,845
48																																4,944

2" 2 1/4" 2 1/2" 2 3/4" 3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2"

INCHES—	2	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	
2	24.0	26.0	28.0	30.0	32.0	36.0	40.0	44.0	48.0	52.0	56.0	60.0	64.0	68.0	72.0	76.0	80.0	84.0	88.0	92.0	96.0	100.0	104.0	108.0	112.0	116.0	120.0	124.0	128.0	136.0	
2-1/4		28.1	30.3	32.4	34.5	38.8	43.0	47.3	51.5	55.8	60.0	64.3	68.5	72.8	77.0	81.3	85.5	89.8	94.0	98.3	102.5	106.8	111.0	115.3	119.5	123.8	128.0	132.3	136.5	145.0	
2-1/2			32.5	34.8	37.0	41.5	46.0	50.5	55.0	59.5	64.0	68.5	73.0	77.5	82.0	86.5	91.0	95.5	100.0	104.5	109.0	113.5	118.0	122.5	127.0	131.5	136.0	140.5	145.0	154.0	
2-3/4				37.1	39.5	44.3	49.0	53.8	58.5	63.3	68.0	72.8	77.5	82.3	87.0	91.8	96.5	101.3	106.0	110.8	115.5	120.3	125.0	129.8	134.5	139.3	144.0	148.8	153.5	163.0	
3					42.0	47.0	52.0	57.0	62.0	67.0	72.0	77.0	82.0	87.0	92.0	97.0	102.0	107.0	112.0	117.0	122.0	127.0	132.0	137.0	142.0	147.0	152.0	157.0	162.0	172.0	
3-1/2						52.5	58.0	63.5	69.0	74.5	80.0	85.5	91.0	96.5	102.0	107.5	113.0	118.5	124.0	129.5	135.0	140.5	146.0	151.5	157.0	162.5	168.0	173.5	179.0	190.0	
4							64.0	70.0	76.0	82.0	88.0	94.0	100.0	106.0	112.0	118.0	124.0	130.0	136.0	142.0	148.0	154.0	160.0	166.0	172.0	178.0	184.0	190.0	196.0	208.0	
4-1/2								76.5	83.0	89.5	96.0	102.5	109.0	115.5	122.0	128.5	135.0	141.5	148.0	154.5	161.0	167.5	174.0	180.5	187.0	193.5	200.0	206.5	213.0	226.0	
5									90.0	97.0	104.0	111.0	118.0	125.0	132.0	139.0	146.0	153.0	160.0	167.0	174.0	181.0	188.0	195.0	202.0	209.0	216.0	223.0	230.0	244.0	
5-1/2										104.5	112.0	119.5	127.0	134.5	142.0	149.5	157.0	164.5	172.0	179.5	187.0	194.5	202.0	209.5	217.0	224.5	232.0	239.5	247.0	262.0	
6											120.0	128.0	136.0	144.0	152.0	160.0	168.0	176.0	184.0	192.0	200.0	208.0	216.0	224.0	232.0	240.0	248.0	256.0	264.0	280.0	
6-1/2												136.5	145.0	153.5	162.0	170.5	179.0	187.5	196.0	204.5	213.0	221.5	230.0	238.5	247.0	255.5	264.0	272.5	281.0	298.0	
7													154.0	163.0	172.0	181.0	190.0	199.0	208.0	217.0	226.0	235.0	244.0	253.0	262.0	271.0	280.0	289.0	298.0	316.0	
7-1/2														172.5	182.0	191.5	201.0	210.5	220.0	229.5	239.0	248.5	258.0	267.5	277.0	286.5	296.0	305.5	315.0	334.0	
8															192.0	202.0	212.0	222.0	232.0	242.0	252.0	262.0	272.0	282.0	292.0	302.0	312.0	322.0	332.0	352.0	
8-1/2																212.5	223.0	233.5	244.0	254.5	265.0	275.5	286.0	296.5	307.0	317.5	328.0	338.5	349.0	370.0	
9																	234.0	245.0	256.0	267.0	278.0	289.0	300.0	311.0	322.0	333.0	344.0	355.0	366.0	388.0	
9-1/2																		256.5	268.0	279.5	291.0	302.5	314.0	325.5	337.0	348.5	360.0	371.5	383.0	406.0	
10																			280.0	292.0	304.0	316.0	328.0	340.0	352.0	364.0	376.0	388.0	400.0	424.0	
10-1/2																				304.5	317.0	329.5	342.0	354.5	367.0	379.5	392.0	404.5	417.0	442.0	
11																					330.0	343.0	356.0	369.0	382.0	395.0	408.0	421.0	434.0	460.0	
11-1/2																						356.5	370.0	383.5	397.0	410.5	424.0	437.5	451.0	478.0	
12																							384.0	398.0	412.0	426.0	440.0	454.0	468.0	496.0	
12-1/2																								412.5	427.0	441.5	456.0	470.5	485.0	514.0	
13																									442.0	457.0	472.0	487.0	502.0	532.0	
13-1/2																										472.5	488.0	503.5	519.0	550.0	
14																											504.0	520.0	536.0	568.0	
14-1/2																													536.5	553.0	586.0
15																														570.0	604.0
16																															640.0



17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
144.0	152.0	160.0	168.0	176.0	184.0	192.0	200.0	208.0	216.0	224.0	232.0	240.0	248.0	256.0	264.0	272.0	280.0	288.0	296.0	304.0	312.0	320.0	328.0	336.0	344.0	352.0	360.0	368.0	376.0	384.0	392.0	2
153.5	162.0	170.5	179.0	187.5	196.0	204.5	213.0	221.5	230.0	238.5	247.0	255.5	264.0	272.5	281.0	289.5	298.0	306.5	315.0	323.5	332.0	340.5	349.0	357.5	366.0	374.5	383.0	391.5	400.0	408.5	417.0	2-1/4
163.0	172.0	181.0	190.0	199.0	208.0	217.0	226.0	235.0	244.0	253.0	262.0	271.0	280.0	289.0	298.0	307.0	316.0	325.0	334.0	343.0	352.0	361.0	370.0	379.0	388.0	397.0	406.0	415.0	424.0	433.0	442.0	2-1/2
172.5	182.0	191.5	201.0	210.5	220.0	229.5	239.0	248.5	258.0	267.5	277.0	286.5	296.0	305.5	315.0	324.5	334.0	343.5	353.0	362.5	372.0	381.5	391.0	400.5	410.0	419.5	429.0	438.5	448.0	457.5	467.0	2-3/4
182.0	192.0	202.0	212.0	222.0	232.0	242.0	252.0	262.0	272.0	282.0	292.0	302.0	312.0	322.0	332.0	342.0	352.0	362.0	372.0	382.0	392.0	402.0	412.0	422.0	432.0	442.0	452.0	462.0	472.0	482.0	492.0	3
201.0	212.0	223.0	234.0	245.0	256.0	267.0	278.0	289.0	300.0	311.0	322.0	333.0	344.0	355.0	366.0	377.0	388.0	399.0	410.0	421.0	432.0	443.0	454.0	465.0	476.0	487.0	498.0	509.0	520.0	531.0	542.0	3-1/2
220.0	232.0	244.0	256.0	268.0	280.0	292.0	304.0	316.0	328.0	340.0	352.0	364.0	376.0	388.0	400.0	412.0	424.0	436.0	448.0	460.0	472.0	484.0	496.0	508.0	520.0	532.0	544.0	556.0	568.0	580.0	592.0	4
239.0	252.0	265.0	278.0	291.0	304.0	317.0	330.0	343.0	356.0	369.0	382.0	395.0	408.0	421.0	434.0	447.0	460.0	473.0	486.0	499.0	512.0	525.0	538.0	551.0	564.0	577.0	590.0	603.0	616.0	629.0	642.0	4-1/2
258.0	272.0	286.0	300.0	314.0	328.0	342.0	356.0	370.0	384.0	398.0	412.0	426.0	440.0	454.0	468.0	482.0	496.0	510.0	524.0	538.0	552.0	566.0	580.0	594.0	608.0	622.0	636.0	650.0	664.0	678.0	692.0	5
277.0	292.0	307.0	322.0	337.0	352.0	367.0	382.0	397.0	412.0	427.0	442.0	457.0	472.0	487.0	502.0	517.0	532.0	547.0	562.0	577.0	592.0	607.0	622.0	637.0	652.0	667.0	682.0	697.0	712.0	727.0	742.0	5-1/2
296.0	312.0	328.0	344.0	360.0	376.0	392.0	408.0	424.0	440.0	456.0	472.0	488.0	504.0	520.0	536.0	552.0	568.0	584.0	600.0	616.0	632.0	648.0	664.0	680.0	696.0	712.0	728.0	744.0	760.0	776.0	792.0	6
315.0	332.0	349.0	366.0	383.0	400.0	417.0	434.0	451.0	468.0	485.0	502.0	519.0	536.0	553.0	570.0	587.0	604.0	621.0	638.0	655.0	672.0	689.0	706.0	723.0	740.0	757.0	774.0	791.0	808.0	825.0	842.0	6-1/2
334.0	352.0	370.0	388.0	406.0	424.0	442.0	460.0	478.0	496.0	514.0	532.0	550.0	568.0	586.0	604.0	622.0	640.0	658.0	676.0	694.0	712.0	730.0	748.0	766.0	784.0	802.0	820.0	838.0	856.0	874.0	892.0	7
353.0	372.0	391.0	410.0	429.0	448.0	467.0	486.0	505.0	524.0	543.0	562.0	581.0	600.0	619.0	638.0	657.0	676.0	695.0	714.0	733.0	752.0	771.0	790.0	809.0	828.0	847.0	866.0	885.0	904.0	923.0	942.0	7-1/2
372.0	392.0	412.0	432.0	452.0	472.0	492.0	512.0	532.0	552.0	572.0	592.0	612.0	632.0	652.0	672.0	692.0	712.0	732.0	752.0	772.0	792.0	812.0	832.0	852.0	872.0	892.0	912.0	932.0	952.0	972.0	992.0	8
391.0	412.0	433.0	454.0	475.0	496.0	517.0	538.0	559.0	580.0	601.0	622.0	643.0	664.0	685.0	706.0	727.0	748.0	769.0	790.0	811.0	832.0	853.0	874.0	895.0	916.0	937.0	958.0	979.0	1,000	1,021	1,042	8-1/2
410.0	432.0	454.0	476.0	498.0	520.0	542.0	564.0	586.0	608.0	630.0	652.0	674.0	696.0	718.0	740.0	762.0	784.0	806.0	828.0	850.0	872.0	894.0	916.0	938.0	960.0	982.0	1,004	1,026	1,048	1,070	1,092	9
429.0	452.0	475.0	498.0	521.0	544.0	567.0	590.0	613.0	636.0	659.0	682.0	705.0	728.0	751.0	774.0	797.0	820.0	843.0	866.0	889.0	912.0	935.0	958.0	981.0	1,004	1,027	1,050	1,073	1,096	1,119	1,142	9-1/2
448.0	472.0	496.0	520.0	544.0	568.0	592.0	616.0	640.0	664.0	688.0	712.0	736.0	760.0	784.0	808.0	832.0	856.0	880.0	904.0	928.0	952.0	976.0	1,000	1,024	1,048	1,072	1,096	1,120	1,144	1,168	1,192	10
467.0	492.0	517.0	542.0	567.0	592.0	617.0	642.0	667.0	692.0	717.0	742.0	767.0	792.0	817.0	842.0	867.0	892.0	917.0	942.0	967.0	992.0	1,017	1,042	1,067	1,092	1,117	1,142	1,167	1,192	1,217	1,242	10-1/2
486.0	512.0	538.0	564.0	590.0	616.0	642.0	668.0	694.0	720.0	746.0	772.0	798.0	824.0	850.0	876.0	902.0	928.0	954.0	980.0	1,006	1,032	1,058	1,084	1,110	1,136	1,162	1,188	1,214	1,240	1,266	1,292	11
505.0	532.0	559.0	586.0	613.0	640.0	667.0	694.0	721.0	748.0	775.0	802.0	829.0	856.0	883.0	910.0	937.0	964.0	991.0	1,018	1,045	1,072	1,099	1,126	1,153	1,180	1,207	1,234	1,261	1,288	1,315	1,342	11-1/2
524.0	552.0	580.0	608.0	636.0	664.0	692.0	720.0	748.0	776.0	804.0	832.0	860.0	888.0	916.0	944.0	972.0	1,000	1,028	1,056	1,084	1,112	1,140	1,168	1,196	1,224	1,252	1,280	1,308	1,336	1,364	1,392	12
543.0	572.0	601.0	630.0	659.0	688.0	717.0	746.0	775.0	804.0	833.0	862.0	891.0	920.0	949.0	978.0	1,007	1,036	1,065	1,094	1,123	1,152	1,181	1,210	1,239	1,268	1,297	1,326	1,355	1,384	1,413	1,442	12-1/2
562.0	592.0	622.0	652.0	682.0	712.0	742.0	772.0	802.0	832.0	862.0	892.0	922.0	952.0	982.0	1,012	1,042	1,072	1,102	1,132	1,162	1,192	1,222	1,252	1,282	1,312	1,342	1,372	1,402	1,432	1,462	1,492	13
581.0	612.0	643.0	674.0	705.0	736.0	767.0	798.0	829.0	860.0	891.0	922.0	953.0	984.0	1,015	1,046	1,077	1,108	1,139	1,170	1,201	1,232	1,263	1,294	1,325	1,356	1,387	1,418	1,449	1,480	1,511	1,542	13-1/2
600.0	632.0	664.0	696.0	728.0	760.0	792.0	824.0	856.0	888.0	920.0	952.0	984.0	1,016	1,048	1,080	1,112	1,144	1,176	1,208	1,240	1,272	1,304	1,336	1,368	1,400	1,432	1,464	1,496	1,528	1,560	1,592	14
619.0	652.0	685.0	718.0	751.0	784.0	817.0	850.0	883.0	916.0	949.0	982.0	1,015	1,048	1,081	1,114	1,147	1,180	1,213	1,246	1,279	1,312	1,345	1,378	1,411	1,444	1,477	1,510	1,543	1,576	1,609	1,642	14-1/2
638.0	672.0	706.0	740.0	774.0	808.0	842.0	876.0	910.0	944.0	978.0	1,012	1,046	1,080	1,114	1,148	1,182	1,216	1,250	1,284	1,318	1,352	1,386	1,420	1,454	1,488	1,522	1,556	1,590	1,624	1,658	1,692	15
676.0	712.0	748.0	784.0	820.0	856.0	892.0	928.0	964.0	1,000	1,036	1,072	1,108	1,144	1,180	1,216	1,252	1,288	1,324	1,360	1,396	1,432	1,468	1,504	1,540	1,576	1,612	1,648	1,684	1,720	1,756	1,792	16

2" 2 1/4" 2 1/2" 2 3/4" 3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2"



INCHES	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
17	714.0	752.0	790.0	828.0	866.0	904.0	942.0	980.0	1,018	1,056	1,094	1,132	1,170	1,208	1,246	1,284	1,322	1,360	1,398	1,436	1,474	1,512	1,550	1,588	1,626	1,664	1,702	1,740	1,778	1,816	1,854	1,892
18		792.0	832.0	872.0	912.0	952.0	992.0	1,032	1,072	1,112	1,152	1,192	1,232	1,272	1,312	1,352	1,392	1,432	1,472	1,512	1,552	1,592	1,632	1,672	1,712	1,752	1,792	1,832	1,872	1,912	1,952	1,992
19			874.0	916.0	958.0	1,000	1,042	1,084	1,126	1,168	1,210	1,252	1,294	1,336	1,378	1,420	1,462	1,504	1,546	1,588	1,630	1,672	1,714	1,756	1,798	1,840	1,882	1,924	1,966	2,008	2,050	2,092
20				960.0	1,004	1,048	1,092	1,136	1,180	1,224	1,268	1,312	1,356	1,400	1,444	1,488	1,532	1,576	1,620	1,664	1,708	1,752	1,796	1,840	1,884	1,928	1,972	2,016	2,060	2,104	2,148	2,192
21					1,050	1,096	1,142	1,188	1,234	1,280	1,326	1,372	1,418	1,464	1,510	1,556	1,602	1,648	1,694	1,740	1,786	1,832	1,878	1,924	1,970	2,016	2,062	2,108	2,154	2,200	2,246	2,292
22						1,144	1,192	1,240	1,288	1,336	1,384	1,432	1,480	1,528	1,576	1,624	1,672	1,720	1,768	1,816	1,864	1,912	1,960	2,008	2,056	2,104	2,152	2,200	2,248	2,296	2,344	2,392
23							1,242	1,292	1,342	1,392	1,442	1,492	1,542	1,592	1,642	1,692	1,742	1,792	1,842	1,892	1,942	1,992	2,042	2,092	2,142	2,192	2,242	2,292	2,342	2,392	2,442	2,492
24								1,344	1,396	1,448	1,500	1,552	1,604	1,656	1,708	1,760	1,812	1,864	1,916	1,968	2,020	2,072	2,124	2,176	2,228	2,280	2,332	2,384	2,436	2,488	2,540	2,592
25									1,450	1,504	1,558	1,612	1,666	1,720	1,774	1,828	1,882	1,936	1,990	2,044	2,098	2,152	2,206	2,260	2,314	2,368	2,422	2,476	2,530	2,584	2,638	2,692
26										1,560	1,616	1,672	1,728	1,784	1,840	1,896	1,952	2,008	2,064	2,120	2,176	2,232	2,288	2,344	2,400	2,456	2,512	2,568	2,624	2,680	2,736	2,792
27											1,674	1,732	1,790	1,848	1,906	1,964	2,022	2,080	2,138	2,196	2,254	2,312	2,370	2,428	2,486	2,544	2,602	2,660	2,718	2,776	2,834	2,892
28												1,792	1,852	1,912	1,972	2,032	2,092	2,152	2,212	2,272	2,332	2,392	2,452	2,512	2,572	2,632	2,692	2,752	2,812	2,872	2,932	2,992
29													1,914	1,976	2,038	2,100	2,162	2,224	2,286	2,348	2,410	2,472	2,534	2,596	2,658	2,720	2,782	2,844	2,906	2,968	3,030	3,092
30														2,040	2,104	2,168	2,232	2,296	2,360	2,424	2,488	2,552	2,616	2,680	2,744	2,808	2,872	2,936	3,000	3,064	3,128	3,192
31															2,170	2,236	2,302	2,368	2,434	2,500	2,566	2,632	2,698	2,764	2,830	2,896	2,962	3,028	3,094	3,160	3,226	3,292
32																2,304	2,372	2,440	2,508	2,576	2,644	2,712	2,780	2,848	2,916	2,984	3,052	3,120	3,188	3,256	3,324	3,392
33																	2,442	2,512	2,582	2,652	2,722	2,792	2,862	2,932	3,002	3,072	3,142	3,212	3,282	3,352	3,422	3,492
34																		2,584	2,656	2,728	2,800	2,872	2,944	3,016	3,088	3,160	3,232	3,304	3,376	3,448	3,520	3,592
35																			2,730	2,804	2,878	2,952	3,026	3,100	3,174	3,248	3,322	3,396	3,470	3,544	3,618	3,692
36																				2,880	2,956	3,032	3,108	3,184	3,260	3,336	3,412	3,488	3,564	3,640	3,716	3,792
37																					3,034	3,112	3,190	3,268	3,346	3,424	3,502	3,580	3,658	3,736	3,814	3,892
38																						3,192	3,272	3,352	3,432	3,512	3,592	3,672	3,752	3,832	3,912	3,992
39																							3,354	3,436	3,518	3,600	3,682	3,764	3,846	3,928	4,010	4,092
40																								3,520	3,604	3,688	3,772	3,856	3,940	4,024	4,108	4,192
41																									3,690	3,776	3,862	3,948	4,034	4,120	4,206	4,292
42																										3,864	3,952	4,040	4,128	4,216	4,304	4,392
43																											4,042	4,132	4,222	4,312	4,402	4,492
44																												4,224	4,316	4,408	4,500	4,592
45																													4,410	4,504	4,598	4,692
46																														4,600	4,696	4,792
47																															4,794	4,892
48																																4,892

$2\frac{1}{4}$      $2\frac{1}{2}$      $2\frac{3}{4}$     3"     $3\frac{1}{2}$     4"     $4\frac{1}{2}$     5"     $5\frac{1}{2}$     6"     $6\frac{1}{2}$     7"     $7\frac{1}{2}$     8"     $8\frac{1}{2}$

INCHES	2-1/4	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17
2-1/4	30.4	32.6	34.9	37.1	41.6	46.1	50.6	55.1	59.6	64.1	68.6	73.1	77.6	82.1	86.6	91.1	95.6	100.1	104.6	109.1	113.6	118.1	122.6	127.1	131.6	136.1	140.6	145.1	154.1	163.1
2-1/2		35.0	37.4	39.8	44.5	49.3	54.0	58.8	63.5	68.3	73.0	77.8	82.5	87.3	92.0	96.8	101.5	106.3	111.0	115.8	120.5	125.3	130.0	134.8	139.5	144.3	149.0	153.8	163.3	172.8
2-3/4			39.9	42.4	47.4	52.4	57.4	62.4	67.4	72.4	77.4	82.4	87.4	92.4	97.4	102.4	107.4	112.4	117.4	122.4	127.4	132.4	137.4	142.4	147.4	152.4	157.4	162.4	172.4	182.4
3				45.0	50.3	55.5	60.8	66.0	71.3	76.5	81.8	87.0	92.3	97.5	102.8	108.0	113.3	118.5	123.8	129.0	134.3	139.5	144.8	150.0	155.3	160.5	165.8	171.0	181.5	192.0
3-1/2					56.0	61.8	67.5	73.3	79.0	84.8	90.5	96.3	102.0	107.8	113.5	119.3	125.0	130.8	136.5	142.3	148.0	153.8	159.5	165.3	171.0	176.8	182.5	188.3	199.8	211.3
4						68.0	74.3	80.5	86.8	93.0	99.3	105.5	111.8	118.0	124.3	130.5	136.8	143.0	149.3	155.5	161.8	168.0	174.3	180.5	186.8	193.0	199.3	205.5	218.0	230.5
4-1/2							81.0	87.8	94.5	101.3	108.0	114.8	121.5	128.3	135.0	141.8	148.5	155.3	162.0	168.8	175.5	182.3	189.0	195.8	202.5	209.3	216.0	222.8	236.3	249.8
5								95.0	102.3	109.5	116.8	124.0	131.3	138.5	145.8	153.0	160.3	167.5	174.8	182.0	189.3	196.5	203.8	211.0	218.3	225.5	232.8	240.0	254.5	269.0
5-1/2									110.0	117.8	125.5	133.3	141.0	148.8	156.5	164.3	172.0	179.8	187.5	195.3	203.0	210.8	218.5	226.3	234.0	241.8	249.5	257.3	272.8	288.3
6										126.0	134.3	142.5	150.8	159.0	167.3	175.5	183.8	192.0	200.3	208.5	216.8	225.0	233.3	241.5	249.8	258.0	266.3	274.5	291.0	307.5
6-1/2											143.0	151.8	160.5	169.3	178.0	186.8	195.5	204.3	213.0	221.8	230.5	239.3	248.0	256.8	265.5	274.3	283.0	291.8	309.3	326.8
7												161.0	170.3	179.5	188.8	198.0	207.3	216.5	225.8	235.0	244.3	253.5	262.8	272.0	281.3	290.5	299.8	309.0	327.5	346.0
7-1/2													180.0	189.8	199.5	209.3	219.0	228.8	238.5	248.3	258.0	267.8	277.5	287.3	297.0	306.8	316.5	326.3	345.8	365.3
8														200.0	210.3	220.5	230.8	241.0	251.3	261.5	271.8	282.0	292.3	302.5	312.8	323.0	333.3	343.5	364.0	384.5
8-1/2															221.0	231.6	242.5	253.3	264.0	274.8	285.5	296.3	307.0	317.8	328.5	339.3	350.0	360.8	382.3	403.8
9																243.0	254.3	265.5	276.8	288.0	299.3	310.5	321.8	333.0	344.3	355.5	366.8	378.0	400.5	423.0
9-1/2																	266.0	277.8	289.5	301.3	313.0	324.8	336.5	348.3	360.0	371.8	383.5	395.3	418.8	442.3
10																		290.0	302.3	314.5	326.8	339.0	351.3	363.5	375.8	388.0	400.3	412.5	437.0	461.5
10-1/2																			315.0	327.6	340.5	353.3	366.0	378.8	391.5	404.3	417.0	429.8	455.3	480.8
11																				341.0	354.3	367.5	380.8	394.0	407.3	420.5	433.8	447.0	473.5	500.0
11-1/2																					368.0	381.8	395.5	409.3	423.0	436.8	450.5	464.3	491.8	519.3
12																						396.0	410.3	424.5	438.8	453.0	467.3	481.5	510.0	538.5
12-1/2																							425.0	439.8	454.5	469.3	484.0	498.8	528.3	557.8
13																								455.0	470.3	485.5	500.8	516.0	546.5	577.0
13-1/2																									486.0	501.8	517.5	533.3	564.8	596.3
14																										518.0	534.3	550.5	583.0	615.5
14-1/2																											551.0	567.8	601.3	634.8
15																												585.0	619.5	654.0
16																													656.0	692.5
17																														731.0



18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48 — INCHES	
172.1	181.1	190.1	199.1	208.1	217.1	226.1	235.1	244.1	253.1	262.1	271.1	280.1	289.1	298.1	307.1	316.1	325.1	334.1	343.1	352.1	361.1	370.1	379.1	388.1	397.1	406.1	415.1	424.1	433.1	442.1	2-1/4
182.3	191.8	201.3	210.8	220.3	229.8	239.3	248.8	258.3	267.8	277.3	286.8	296.3	305.8	315.3	324.8	334.3	343.8	353.3	362.8	372.3	381.8	391.3	400.8	410.3	419.8	429.3	438.8	448.3	457.8	467.3	2-1/2
192.4	202.4	212.4	222.4	232.4	242.4	252.4	262.4	272.4	282.4	292.4	302.4	312.4	322.4	332.4	342.4	352.4	362.4	372.4	382.4	392.4	402.4	412.4	422.4	432.4	442.4	452.4	462.4	472.4	482.4	492.4	2-3/4
202.5	213.0	223.5	234.0	244.5	255.0	265.5	276.0	286.5	297.0	307.5	318.0	328.5	339.0	349.5	360.0	370.5	381.0	391.5	402.0	412.5	423.0	433.5	444.0	454.5	465.0	475.5	486.0	496.5	507.0	517.5	3
222.8	234.3	245.8	257.3	268.8	280.3	291.8	303.3	314.8	326.3	337.8	349.3	360.8	372.3	383.8	395.3	406.8	418.3	429.8	441.3	452.8	464.3	475.8	487.3	498.8	510.3	521.8	533.3	544.8	556.3	567.8	3-1/2
243.0	255.5	268.0	280.5	293.0	305.5	318.0	330.5	343.0	355.5	368.0	380.5	393.0	405.5	418.0	430.5	443.0	455.5	468.0	480.5	493.0	505.5	518.0	530.5	543.0	555.5	568.0	580.5	593.0	605.5	618.0	4
263.3	276.8	290.3	303.8	317.3	330.8	344.3	357.8	371.3	384.8	398.3	411.8	425.3	438.8	452.3	465.8	479.3	492.8	506.3	519.8	533.3	546.8	560.3	573.8	587.3	600.8	614.3	627.8	641.3	654.8	668.3	4-1/2
283.5	298.0	312.5	327.0	341.5	356.0	370.5	385.0	399.5	414.0	428.5	443.0	457.5	472.0	486.5	501.0	515.5	530.0	544.5	559.0	573.5	588.0	602.5	617.0	631.5	646.0	660.5	675.0	689.5	704.0	718.5	5
303.8	319.3	334.8	350.3	365.8	381.3	396.8	412.3	427.8	443.3	458.8	474.3	489.8	505.3	520.8	536.3	551.8	567.3	582.8	598.3	613.8	629.3	644.8	660.3	675.8	691.3	706.8	722.3	737.8	753.3	768.8	5-1/2
324.0	340.5	357.0	373.5	390.0	406.5	423.0	439.5	456.0	472.5	489.0	505.5	522.0	538.5	555.0	571.5	588.0	604.5	621.0	637.5	654.0	670.5	687.0	703.5	720.0	736.5	753.0	769.5	786.0	802.5	819.0	6
344.3	361.8	379.3	396.8	414.3	431.8	449.3	466.8	484.3	501.8	519.3	536.8	554.3	571.8	589.3	606.8	624.3	641.8	659.3	676.8	694.3	711.8	729.3	746.8	764.3	781.8	799.3	816.8	834.3	851.8	869.3	6-1/2
364.5	383.0	401.5	420.0	438.5	457.0	475.5	494.0	512.5	531.0	549.5	568.0	586.5	605.0	623.5	642.0	660.5	679.0	697.5	716.0	734.5	753.0	771.5	790.0	808.5	827.0	845.5	864.0	882.5	901.0	919.5	7
384.8	404.3	423.8	443.3	462.8	482.3	501.8	521.3	540.8	560.3	579.8	599.3	618.8	638.3	657.8	677.3	696.8	716.3	735.8	755.3	774.8	794.3	813.8	833.3	852.8	872.3	891.8	911.3	930.8	950.3	969.8	7-1/2
405.0	425.5	446.0	466.5	487.0	507.5	528.0	548.5	569.0	589.5	610.0	630.5	651.0	671.5	692.0	712.5	733.0	753.5	774.0	794.5	815.0	835.5	856.0	876.5	897.0	917.5	938.0	958.5	979.0	999.5	1,020	8
425.3	446.8	468.3	489.8	511.3	532.8	554.3	575.8	597.3	618.8	640.3	661.8	683.3	704.8	726.3	747.8	769.3	790.8	812.3	833.8	855.3	876.8	898.3	919.8	941.3	962.8	984.3	1,006	1,027	1,049	1,070	8-1/2
445.5	468.0	490.5	513.0	535.5	558.0	580.5	603.0	625.5	648.0	670.5	693.0	715.5	738.0	760.5	783.0	805.5	828.0	850.5	873.0	895.5	918.0	940.5	963.0	985.5	1,008	1,031	1,053	1,076	1,098	1,121	9
465.8	489.3	512.8	536.3	559.8	583.3	606.8	630.3	653.8	677.3	700.8	724.3	747.8	771.3	794.8	818.3	841.8	865.3	888.8	913.3	935.8	959.3	982.8	1,006	1,030	1,053	1,077	1,100	1,124	1,147	1,171	9-1/2
486.0	510.5	535.0	559.5	584.0	608.5	633.0	657.5	682.0	706.5	731.0	755.5	780.0	804.5	829.0	853.5	878.0	902.5	927.0	951.5	976.0	1,001	1,025	1,050	1,074	1,099	1,123	1,148	1,172	1,197	1,221	10
506.3	531.8	557.3	582.8	608.3	633.8	659.3	684.8	710.3	735.8	761.3	786.8	812.3	837.8	863.3	888.8	914.3	939.8	965.3	990.8	1,016	1,042	1,067	1,093	1,118	1,144	1,169	1,195	1,220	1,246	1,271	10-1/2
526.5	553.0	579.5	606.0	632.5	659.0	685.5	712.0	738.5	765.0	791.5	818.0	844.5	871.0	897.5	924.0	950.5	977.0	1,004	1,030	1,057	1,083	1,110	1,136	1,163	1,189	1,216	1,242	1,269	1,295	1,322	11
546.8	574.3	601.8	629.3	656.8	684.3	711.8	739.3	766.8	794.3	821.8	849.3	876.8	904.3	931.8	959.3	986.8	1,014	1,042	1,069	1,097	1,124	1,152	1,179	1,207	1,234	1,262	1,289	1,317	1,344	1,372	11-1/2
567.0	595.5	624.0	652.5	681.0	709.5	738.0	766.5	795.0	823.5	852.0	880.5	909.0	937.5	966.0	994.5	1,023	1,052	1,080	1,109	1,137	1,166	1,194	1,223	1,251	1,280	1,308	1,337	1,365	1,394	1,422	12
587.3	616.8	646.3	675.8	705.3	734.8	764.3	793.8	823.3	852.8	882.3	911.8	941.3	970.8	1,000	1,030	1,059	1,089	1,118	1,148	1,177	1,207	1,236	1,266	1,295	1,325	1,354	1,384	1,413	1,443	1,472	12-1/2
607.5	638.0	668.5	699.0	729.5	760.0	790.5	821.0	851.5	882.0	912.5	943.0	973.5	1,004	1,035	1,065	1,096	1,126	1,157	1,187	1,218	1,248	1,279	1,309	1,340	1,370	1,401	1,431	1,462	1,492	1,523	13
627.8	659.3	690.8	722.3	753.8	785.3	816.8	848.3	879.8	911.3	942.8	974.3	1,006	1,037	1,069	1,100	1,132	1,163	1,195	1,226	1,258	1,289	1,321	1,352	1,384	1,415	1,447	1,478	1,510	1,541	1,573	13-1/2
648.0	680.5	713.0	745.5	778.0	810.5	843.0	875.5	908.0	940.5	973.0	1,006	1,038	1,071	1,103	1,136	1,168	1,201	1,233	1,266	1,298	1,331	1,363	1,396	1,428	1,461	1,493	1,526	1,558	1,591	1,623	14
668.3	701.8	735.3	768.8	802.3	835.8	869.3	902.8	936.3	969.8	1,003	1,037	1,070	1,108	1,137	1,171	1,204	1,238	1,271	1,305	1,338	1,372	1,405	1,439	1,472	1,506	1,539	1,573	1,606	1,640	1,673	14-1/2
688.5	723.0	757.5	792.0	826.5	861.0	895.5	930.0	964.5	999.0	1,034	1,068	1,103	1,137	1,172	1,206	1,241	1,275	1,310	1,344	1,379	1,413	1,448	1,482	1,517	1,551	1,586	1,620	1,655	1,689	1,724	15
729.0	765.5	802.0	838.5	875.0	911.5	948.0	984.5	1,021	1,058	1,094	1,131	1,167	1,204	1,240	1,277	1,313	1,350	1,386	1,423	1,459	1,496	1,532	1,569	1,605	1,642	1,678	1,715	1,751	1,788	1,824	16
769.5	808.0	846.5	885.0	923.5	962.0	1,001	1,039	1,078	1,116	1,155	1,193	1,232	1,270	1,309	1,347	1,386	1,424	1,463	1,501	1,540	1,578	1,617	1,655	1,694	1,732	1,771	1,809	1,848	1,886	1,925	17

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INCHES →	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
18	810.0	850.5	891.0	931.5	972.0	1,013	1,053	1,094	1,134	1,175	1,215	1,256	1,296	1,337	1,377	1,418	1,458	1,499	1,539	1,580	1,620	1,661	1,701	1,742	1,782	1,823	1,863	1,904	1,944	1,985	2,025	
19		893.0	935.5	978.0	1,021	1,063	1,106	1,148	1,191	1,233	1,276	1,318	1,361	1,403	1,446	1,488	1,531	1,573	1,616	1,658	1,701	1,743	1,786	1,828	1,871	1,913	1,956	1,998	2,041	2,083	2,126	
20			980.0	1,025	1,069	1,114	1,158	1,203	1,247	1,292	1,336	1,381	1,425	1,470	1,514	1,559	1,603	1,648	1,692	1,737	1,781	1,826	1,870	1,915	1,959	2,004	2,048	2,093	2,137	2,182	2,226	
21				1,071	1,118	1,164	1,211	1,257	1,304	1,350	1,397	1,443	1,490	1,536	1,583	1,629	1,676	1,722	1,769	1,815	1,862	1,908	1,955	2,001	2,048	2,094	2,141	2,187	2,234	2,280	2,327	
22					1,166	1,215	1,263	1,312	1,360	1,409	1,457	1,506	1,554	1,603	1,651	1,700	1,748	1,797	1,845	1,894	1,942	1,991	2,039	2,088	2,136	2,185	2,233	2,282	2,330	2,379	2,427	
23						1,265	1,316	1,366	1,417	1,467	1,518	1,568	1,619	1,669	1,720	1,770	1,821	1,871	1,922	1,972	2,023	2,073	2,124	2,174	2,225	2,275	2,326	2,376	2,427	2,477	2,528	
24							1,368	1,421	1,473	1,526	1,578	1,631	1,683	1,736	1,788	1,841	1,893	1,946	1,998	2,051	2,103	2,156	2,208	2,261	2,313	2,366	2,418	2,471	2,523	2,576	2,628	
25								1,475	1,530	1,584	1,639	1,693	1,748	1,802	1,857	1,911	1,966	2,020	2,075	2,129	2,184	2,238	2,293	2,347	2,402	2,456	2,511	2,565	2,620	2,674	2,729	
26									1,586	1,643	1,699	1,756	1,812	1,869	1,925	1,982	2,038	2,095	2,151	2,208	2,264	2,321	2,377	2,434	2,490	2,547	2,603	2,660	2,716	2,773	2,829	
27										1,701	1,760	1,818	1,877	1,935	1,994	2,052	2,111	2,169	2,228	2,286	2,345	2,403	2,462	2,520	2,579	2,637	2,696	2,754	2,813	2,871	2,930	
28											1,820	1,881	1,941	2,002	2,062	2,123	2,183	2,244	2,304	2,365	2,425	2,486	2,546	2,607	2,667	2,728	2,788	2,849	2,909	2,970	3,030	
29												1,943	2,006	2,068	2,131	2,193	2,256	2,318	2,381	2,443	2,506	2,568	2,631	2,693	2,756	2,818	2,881	2,943	3,006	3,068	3,131	
30													2,070	2,135	2,199	2,264	2,328	2,393	2,457	2,522	2,586	2,651	2,715	2,780	2,844	2,909	2,973	3,038	3,102	3,167	3,231	
31														2,201	2,268	2,334	2,401	2,467	2,534	2,600	2,667	2,733	2,800	2,866	2,933	2,999	3,066	3,132	3,199	3,265	3,332	
32															2,336	2,405	2,473	2,542	2,610	2,679	2,747	2,816	2,884	2,953	3,021	3,090	3,158	3,227	3,295	3,364	3,432	
33																2,475	2,546	2,616	2,687	2,757	2,828	2,898	2,969	3,039	3,110	3,180	3,251	3,321	3,392	3,462	3,533	
34																	2,618	2,691	2,763	2,836	2,908	2,981	3,053	3,126	3,198	3,271	3,343	3,416	3,488	3,561	3,633	
35																		2,765	2,840	2,914	2,989	3,063	3,138	3,212	3,287	3,361	3,436	3,510	3,585	3,659	3,734	
36																			2,916	2,993	3,069	3,146	3,222	3,299	3,375	3,452	3,528	3,605	3,681	3,758	3,834	
37																				3,071	3,150	3,228	3,307	3,385	3,464	3,542	3,621	3,699	3,778	3,856	3,935	
38																					3,230	3,311	3,391	3,472	3,552	3,633	3,713	3,794	3,874	3,955	4,035	
39																						3,393	3,476	3,558	3,641	3,723	3,806	3,888	3,971	4,053	4,136	
40																							3,560	3,645	3,729	3,814	3,898	3,983	4,067	4,152	4,236	
41																								3,733	3,818	3,904	3,991	4,077	4,164	4,250	4,337	
42																									3,906	3,995	4,083	4,172	4,260	4,349	4,437	
43																										4,085	4,176	4,266	4,357	4,447	4,538	
44																											4,268	4,361	4,453	4,546	4,638	
45																												4,455	4,550	4,644	4,739	
46																													4,646	4,743	4,839	
47																														4,841	4,940	
48																																5,040

$2\frac{1}{2}$     $2\frac{3}{4}$    3"    $3\frac{1}{2}$    4"    $4\frac{1}{2}$    5"    $5\frac{1}{2}$    6"    $6\frac{1}{2}$    7"    $7\frac{1}{2}$    8"    $8\frac{1}{2}$

INCHES-	2-1/2	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18
2-1/2	37.5	40.0	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5	102.5	107.5	112.5	117.5	122.5	127.5	132.5	137.5	142.5	147.5	152.5	157.5	162.5	172.5	182.5	192.5
2-3/4		42.0	45.3	50.5	55.8	61.0	66.3	71.5	76.8	82.0	87.3	92.5	97.8	103.0	108.3	113.5	118.8	124.0	129.3	134.5	139.8	145.0	150.3	155.5	160.8	166.0	171.3	181.8	192.3	202.8
3			48.0	53.5	59.0	64.5	70.0	75.5	81.0	86.5	92.0	97.5	103.0	108.5	114.0	119.5	125.0	130.5	136.0	141.5	147.0	152.5	158.0	163.5	169.0	174.5	180.0	191.0	202.0	213.0
3-1/2				59.5	65.5	71.5	77.5	83.5	89.5	95.5	101.5	107.5	113.5	119.5	125.5	131.5	137.5	143.5	149.5	155.5	161.5	167.5	173.5	179.5	185.5	191.5	197.5	209.5	221.5	233.5
4					72.0	78.5	85.0	91.5	98.0	104.5	111.0	117.5	124.0	130.5	137.0	143.5	150.0	156.5	163.0	169.5	176.0	182.5	189.0	195.5	202.0	208.5	215.0	228.0	241.0	254.0
4-1/2						85.5	92.5	99.5	106.5	113.5	120.5	127.5	134.5	141.5	148.5	155.5	162.5	169.5	176.5	183.5	190.5	197.5	204.5	211.5	218.5	225.5	232.5	246.5	260.5	274.5
5							100.0	107.5	115.0	122.5	130.0	137.5	145.0	152.5	160.0	167.5	175.0	182.5	190.0	197.5	205.0	212.5	220.0	227.5	235.0	242.5	250.0	265.0	280.0	295.0
5-1/2								115.5	123.5	131.5	139.5	147.5	155.5	163.5	171.5	179.5	187.5	195.5	203.5	211.5	219.5	227.5	235.5	243.5	251.5	259.5	267.5	283.5	299.5	315.5
6									132.0	140.5	149.0	157.5	166.0	174.5	183.0	191.5	200.0	208.5	217.0	225.5	234.0	242.5	251.0	259.5	268.0	276.5	285.0	302.0	319.0	336.0
6-1/2										149.5	158.5	167.5	176.5	185.5	194.5	203.5	212.5	221.5	230.5	239.5	248.5	257.5	266.5	275.5	284.5	293.5	302.5	320.5	338.5	356.5
7											168.0	177.5	187.0	196.5	206.0	215.5	225.0	234.5	244.0	253.5	263.0	272.5	282.0	291.5	301.0	310.5	320.0	339.0	358.0	377.0
7-1/2												187.5	197.5	207.5	217.5	227.5	237.5	247.5	257.5	267.5	277.5	287.5	297.5	307.5	317.5	327.5	337.5	357.5	377.5	397.5
8													208.0	218.5	229.0	239.5	250.0	260.5	271.0	281.5	292.0	302.5	313.0	323.5	334.0	344.5	355.0	376.0	397.0	418.0
8-1/2														229.5	240.5	251.5	262.5	273.5	284.5	295.5	306.5	317.5	328.5	339.5	350.5	361.5	372.5	394.5	416.5	438.5
9															252.0	263.5	275.0	286.5	298.0	309.5	321.0	332.5	344.0	355.5	367.0	378.5	390.0	413.0	436.0	459.0
9-1/2																275.5	287.5	299.5	311.5	323.5	335.5	347.5	359.5	371.5	383.5	395.5	407.5	431.5	455.5	479.5
10																	300.0	312.5	325.0	337.5	350.0	362.5	375.0	387.5	400.0	412.5	425.0	450.0	475.0	500.0
10-1/2																		325.5	338.5	351.5	364.5	377.5	390.5	403.5	416.5	429.5	442.5	468.5	494.5	520.5
11																			352.0	365.5	379.0	392.5	406.0	419.5	433.0	446.5	460.0	487.0	514.0	541.0
11-1/2																				379.5	393.5	407.5	421.5	435.5	449.5	463.5	477.5	505.5	533.5	561.5
12																					408.0	422.5	437.0	451.5	466.0	480.5	495.0	524.0	553.0	582.0
12-1/2																						437.5	452.5	467.5	482.5	497.5	512.5	542.5	572.5	602.5
13																							468.0	483.5	499.0	514.5	530.0	561.0	592.0	623.0
13-1/2																								499.5	515.5	531.5	547.5	579.5	611.5	643.5
14																									532.0	548.5	565.0	598.0	631.0	664.0
14-1/2																										565.5	582.5	616.5	650.5	684.5
15																											600.0	635.0	670.0	705.0
16																												672.0	709.0	746.0
17																													748.0	787.0
18																														828.0

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
202.5	212.5	222.5	232.5	242.5	252.5	262.5	272.5	282.5	292.5	302.5	312.5	322.5	332.5	342.5	352.5	362.5	372.5	382.5	392.5	402.5	412.5	422.5	432.5	442.5	452.5	462.5	472.5	482.5	492.5	2-1/2
213.3	223.8	234.3	244.8	255.3	265.8	276.3	286.8	297.3	307.8	318.3	328.8	339.3	349.8	360.3	370.8	381.3	391.8	402.3	412.8	423.3	433.8	444.3	454.8	465.3	475.8	486.3	496.8	507.3	517.8	2-3/4
224.0	235.0	246.0	257.0	268.0	279.0	290.0	301.0	312.0	323.0	334.0	345.0	356.0	367.0	378.0	389.0	400.0	411.0	422.0	433.0	444.0	455.0	466.0	477.0	488.0	499.0	510.0	521.0	532.0	543.0	3
245.5	257.5	269.5	281.5	293.5	305.5	317.5	329.5	341.5	353.5	365.5	377.5	389.5	401.5	413.5	425.5	437.5	449.5	461.5	473.5	485.5	497.5	509.5	521.5	533.5	545.5	557.5	569.5	581.5	593.5	3-1/2
267.0	280.0	293.0	306.0	319.0	332.0	345.0	358.0	371.0	384.0	397.0	410.0	423.0	436.0	449.0	462.0	475.0	488.0	501.0	514.0	527.0	540.0	553.0	566.0	579.0	592.0	605.0	618.0	631.0	644.0	4
288.5	302.5	316.5	330.5	344.5	358.5	372.5	386.5	400.5	414.5	428.5	442.5	456.5	470.5	484.5	498.5	512.5	526.5	540.5	554.5	568.5	582.5	596.5	610.5	624.5	638.5	652.5	666.5	680.5	694.5	4-1/2
310.0	325.0	340.0	355.0	370.0	385.0	400.0	415.0	430.0	445.0	460.0	475.0	490.0	505.0	520.0	535.0	550.0	565.0	580.0	595.0	610.0	625.0	640.0	655.0	670.0	685.0	700.0	715.0	730.0	745.0	5
331.5	347.5	363.5	379.5	395.5	411.5	427.5	443.5	459.5	475.5	491.5	507.5	523.5	539.5	555.5	571.5	587.5	603.5	619.5	635.5	651.5	667.5	683.5	699.5	715.5	731.5	747.5	763.5	779.5	795.5	5-1/2
353.0	370.0	387.0	404.0	421.0	438.0	455.0	472.0	489.0	506.0	523.0	540.0	557.0	574.0	591.0	608.0	625.0	642.0	659.0	676.0	693.0	710.0	727.0	744.0	761.0	778.0	795.0	812.0	829.0	846.0	6
374.5	392.5	410.5	428.5	446.5	464.5	482.5	500.5	518.5	536.5	554.5	572.5	590.5	608.5	626.5	644.5	662.5	680.5	698.5	716.5	734.5	752.5	770.5	788.5	806.5	824.5	842.5	860.5	878.5	896.5	6-1/2
396.0	415.0	434.0	453.0	472.0	491.0	510.0	529.0	548.0	567.0	586.0	605.0	624.0	643.0	662.0	681.0	700.0	719.0	738.0	757.0	776.0	795.0	814.0	833.0	852.0	871.0	890.0	909.0	928.0	947.0	7
417.5	437.5	457.5	477.5	497.5	517.5	537.5	557.5	577.5	597.5	617.5	637.5	657.5	677.5	697.5	717.5	737.5	757.5	777.5	797.5	817.5	837.5	857.5	877.5	897.5	917.5	937.5	957.5	977.5	997.5	7-1/2
439.0	460.0	481.0	502.0	523.0	544.0	565.0	586.0	607.0	628.0	649.0	670.0	691.0	712.0	733.0	754.0	775.0	796.0	817.0	838.0	859.0	880.0	901.0	922.0	943.0	964.0	985.0	1,006	1,027	1,048	8
460.5	482.5	504.5	526.5	548.5	570.5	592.5	614.5	636.5	658.5	680.5	702.5	724.5	746.5	768.5	790.5	812.5	834.5	856.5	878.5	900.5	922.5	944.5	966.5	988.5	1,011	1,033	1,055	1,077	1,099	8-1/2
482.0	505.0	528.0	551.0	574.0	597.0	620.0	643.0	666.0	689.0	712.0	735.0	758.0	781.0	804.0	827.0	850.0	873.0	896.0	919.0	942.0	965.0	988.0	1,011	1,034	1,057	1,080	1,103	1,126	1,149	9
503.5	527.5	551.5	575.5	599.5	623.5	647.5	671.5	695.5	719.5	743.5	767.5	791.5	815.5	839.5	863.5	887.5	911.5	935.5	959.5	983.5	1,007.5	1,031.5	1,055.5	1,079.5	1,103.5	1,127.5	1,151.5	1,175.5	1,199.5	9-1/2
525.0	550.0	575.0	600.0	625.0	650.0	675.0	700.0	725.0	750.0	775.0	800.0	825.0	850.0	875.0	900.0	925.0	950.0	975.0	1,000	1,025	1,050	1,075	1,100	1,125	1,150	1,175	1,200	1,225	1,250	10
546.5	572.5	598.5	624.5	650.5	676.5	702.5	728.5	754.5	780.5	806.5	832.5	858.5	884.5	910.5	936.5	962.5	988.5	1,015	1,041	1,067	1,093	1,119	1,145	1,171	1,197	1,223	1,249	1,275	1,301	10-1/2
568.0	595.0	622.0	649.0	676.0	703.0	730.0	757.0	784.0	811.0	838.0	865.0	892.0	919.0	946.0	973.0	1,000	1,027	1,054	1,081	1,108	1,135	1,162	1,189	1,216	1,243	1,270	1,297	1,324	1,351	11
589.5	617.5	645.5	673.5	701.5	729.5	757.5	785.5	813.5	841.5	869.5	897.5	925.5	953.5	981.5	1,010	1,038	1,066	1,094	1,122	1,150	1,178	1,206	1,234	1,262	1,290	1,318	1,346	1,374	1,402	11-1/2
611.0	640.0	669.0	698.0	727.0	756.0	785.0	814.0	843.0	872.0	901.0	930.0	959.0	988.0	1,017	1,046	1,075	1,104	1,133	1,162	1,191	1,220	1,249	1,278	1,307	1,336	1,365	1,394	1,423	1,452	12
632.5	662.5	692.5	722.5	752.5	782.5	812.5	842.5	872.5	902.5	932.5	962.5	992.5	1,023	1,053	1,083	1,113	1,143	1,173	1,203	1,233	1,263	1,293	1,323	1,353	1,383	1,413	1,443	1,473	1,503	12-1/2
654.0	685.0	716.0	747.0	778.0	809.0	840.0	871.0	902.0	933.0	964.0	995.0	1,026	1,057	1,088	1,119	1,150	1,181	1,212	1,243	1,274	1,305	1,336	1,367	1,398	1,429	1,460	1,491	1,522	1,553	13
675.5	707.5	739.5	771.5	803.5	835.5	867.5	899.5	931.5	963.5	995.5	1,028	1,060	1,092	1,124	1,156	1,188	1,220	1,252	1,284	1,316	1,348	1,380	1,412	1,444	1,476	1,508	1,540	1,572	1,604	13-1/2
697.0	730.0	763.0	796.0	829.0	862.0	895.0	928.0	961.0	994.0	1,027	1,060	1,093	1,126	1,159	1,192	1,225	1,258	1,291	1,324	1,357	1,390	1,423	1,456	1,489	1,522	1,555	1,588	1,621	1,654	14
718.5	752.5	786.5	820.5	854.5	888.5	922.5	956.5	990.5	1,025	1,059	1,093	1,127	1,161	1,195	1,229	1,263	1,297	1,331	1,365	1,399	1,433	1,467	1,501	1,535	1,569	1,603	1,637	1,671	1,705	14-1/2
740.0	775.0	810.0	845.0	880.0	915.0	950.0	985.0	1,020	1,055	1,090	1,125	1,160	1,195	1,230	1,265	1,300	1,335	1,370	1,405	1,440	1,475	1,510	1,545	1,580	1,615	1,650	1,685	1,720	1,755	15
783.0	820.0	857.0	894.0	931.0	968.0	1,005	1,042	1,079	1,116	1,153	1,190	1,227	1,264	1,301	1,338	1,375	1,412	1,449	1,486	1,523	1,560	1,597	1,634	1,671	1,708	1,745	1,782	1,819	1,856	16
826.0	865.0	904.0	943.0	982.0	1,021	1,060	1,099	1,138	1,177	1,216	1,255	1,294	1,333	1,372	1,411	1,450	1,489	1,528	1,567	1,606	1,645	1,684	1,723	1,762	1,801	1,840	1,879	1,918	1,957	17
869.0	910.0	951.0	992.0	1,033	1,074	1,115	1,156	1,197	1,238	1,279	1,320	1,361	1,402	1,443	1,484	1,525	1,566	1,607	1,648	1,689	1,730	1,771	1,812	1,853	1,894	1,935	1,976	2,017	2,058	18

$2\frac{1}{2}$     $2\frac{3}{4}$    3"    $3\frac{1}{2}$    4"    $4\frac{1}{2}$    5"    $5\frac{1}{2}$    6"    $6\frac{1}{2}$    7"    $7\frac{1}{2}$    8"    $8\frac{1}{2}$





INCHES-	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
19	912.0	955.0	998.0	1,041	1,084	1,127	1,170	1,213	1,256	1,299	1,342	1,385	1,428	1,471	1,514	1,557	1,600	1,643	1,686	1,729	1,772	1,815	1,858	1,901	1,944	1,987	2,030	2,073	2,116	2,159
20		1,000	1,045	1,090	1,135	1,180	1,225	1,270	1,315	1,360	1,405	1,450	1,495	1,540	1,585	1,630	1,675	1,720	1,765	1,810	1,855	1,900	1,945	1,990	2,035	2,080	2,125	2,170	2,215	2,260
21			1,092	1,139	1,186	1,233	1,280	1,327	1,374	1,421	1,468	1,515	1,562	1,609	1,656	1,703	1,750	1,797	1,844	1,891	1,938	1,985	2,032	2,079	2,126	2,173	2,220	2,267	2,314	2,361
22				1,188	1,237	1,286	1,335	1,384	1,433	1,482	1,531	1,580	1,629	1,678	1,727	1,776	1,825	1,874	1,923	1,972	2,021	2,070	2,119	2,168	2,217	2,266	2,315	2,364	2,413	2,462
23					1,288	1,339	1,390	1,441	1,492	1,543	1,594	1,645	1,696	1,747	1,798	1,849	1,900	1,951	2,002	2,053	2,104	2,155	2,206	2,257	2,308	2,359	2,410	2,461	2,512	2,563
24						1,392	1,445	1,498	1,551	1,604	1,657	1,710	1,763	1,816	1,869	1,922	1,975	2,028	2,081	2,134	2,187	2,240	2,293	2,346	2,399	2,452	2,505	2,558	2,611	2,664
25							1,500	1,555	1,610	1,665	1,720	1,775	1,830	1,885	1,940	1,995	2,050	2,105	2,160	2,215	2,270	2,325	2,380	2,435	2,490	2,545	2,600	2,655	2,710	2,765
26								1,612	1,669	1,726	1,783	1,840	1,897	1,954	2,011	2,068	2,125	2,182	2,239	2,296	2,353	2,410	2,467	2,524	2,581	2,638	2,695	2,752	2,809	2,866
27									1,728	1,787	1,846	1,905	1,964	2,023	2,082	2,141	2,200	2,259	2,318	2,377	2,436	2,495	2,554	2,613	2,672	2,731	2,790	2,849	2,908	2,967
28										1,848	1,909	1,970	2,031	2,092	2,153	2,214	2,275	2,336	2,397	2,458	2,519	2,580	2,641	2,702	2,763	2,824	2,885	2,946	3,007	3,068
29											1,972	2,035	2,098	2,161	2,224	2,287	2,350	2,413	2,476	2,539	2,602	2,665	2,728	2,791	2,854	2,917	2,980	3,043	3,106	3,169
30												2,100	2,165	2,230	2,295	2,360	2,425	2,490	2,555	2,620	2,685	2,750	2,815	2,880	2,945	3,010	3,075	3,140	3,205	3,270
31													2,232	2,299	2,366	2,433	2,500	2,567	2,634	2,701	2,768	2,835	2,902	2,969	3,036	3,103	3,170	3,237	3,304	3,371
32														2,368	2,437	2,506	2,575	2,644	2,713	2,782	2,851	2,920	2,989	3,058	3,127	3,196	3,265	3,334	3,403	3,472
33															2,508	2,579	2,650	2,721	2,792	2,863	2,934	3,005	3,076	3,147	3,218	3,289	3,360	3,431	3,502	3,573
34																2,652	2,725	2,798	2,871	2,944	3,017	3,090	3,163	3,236	3,309	3,382	3,455	3,528	3,601	3,674
35																	2,800	2,875	2,950	3,025	3,100	3,175	3,250	3,325	3,400	3,475	3,550	3,625	3,700	3,775
36																		2,952	3,029	3,106	3,183	3,260	3,337	3,414	3,491	3,568	3,645	3,722	3,799	3,876
37																			3,108	3,187	3,266	3,345	3,424	3,503	3,582	3,661	3,740	3,819	3,898	3,977
38																				3,268	3,349	3,430	3,511	3,592	3,673	3,754	3,835	3,916	3,997	4,078
39																					3,432	3,515	3,598	3,681	3,764	3,847	3,930	4,013	4,096	4,179
40																						3,600	3,685	3,770	3,855	3,940	4,025	4,110	4,195	4,280
41																							3,772	3,859	3,946	4,033	4,120	4,207	4,294	4,381
42																								3,948	4,037	4,126	4,215	4,304	4,393	4,482
43																									4,128	4,219	4,310	4,401	4,492	4,583
44																										4,312	4,405	4,498	4,591	4,684
45																											4,500	4,595	4,690	4,785
46																												4,692	4,789	4,886
47																													4,888	4,987
48																														5,088

$2\frac{3}{4}$     3"     $3\frac{1}{2}$     4"     $4\frac{1}{2}$     5"     $5\frac{1}{2}$     6"     $6\frac{1}{2}$     7"     $7\frac{1}{2}$     8"     $8\frac{1}{2}$

INCHES	2-3/4	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19			
2-3/4	45.4	48.1																															
3		51.0	56.8	62.5	68.3	74.0	79.8	85.5	91.3	97.0	102.8	108.5	114.3	120.0	125.8	131.5	137.3	143.0	148.8	154.5	160.3	166.0	171.8	177.5	183.3	189.0	194.8	200.5	212.0	223.5	235.0		
3-1/2			63.0	69.3	75.5	81.8	88.0	94.3	100.5	106.8	113.0	119.3	125.5	131.8	138.0	144.3	150.5	156.8	163.0	169.3	175.5	181.8	188.0	194.3	200.5	206.8	213.0	219.3	225.5	231.8	238.0	244.3	
4				76.0	82.8	89.5	96.3	103.0	109.8	116.5	123.3	130.0	136.8	143.5	150.3	157.0	163.8	170.5	177.3	184.0	190.8	197.5	204.3	211.0	217.8	224.5	231.3	238.0	244.8	251.5	258.3	265.0	
4-1/2					90.0	97.3	104.5	111.8	119.0	126.3	133.5	140.8	148.0	155.3	162.5	169.8	177.0	184.3	191.5	198.8	206.0	213.3	220.5	227.8	235.0	242.3	249.5	256.8	264.0	271.3	278.5	285.8	
5						105.0	112.8	120.5	128.3	136.0	143.8	151.5	159.3	167.0	174.8	182.5	190.3	198.0	205.8	213.5	221.3	229.0	236.8	244.5	252.3	260.0	267.8	275.5	283.3	291.0	298.8	306.5	
5-1/2							121.0	129.3	137.5	145.8	154.0	162.3	170.5	178.8	187.0	195.3	203.5	211.8	220.0	228.3	236.5	244.8	253.0	261.3	269.5	277.8	286.0	294.3	302.5	310.8	319.0	327.3	
6								138.0	146.8	155.5	164.3	173.0	181.8	190.5	199.3	208.0	216.8	225.5	234.3	243.0	251.8	260.5	269.3	278.0	286.8	295.5	304.3	313.0	321.8	330.5	339.3	348.0	
6-1/2									156.0	165.3	174.5	183.8	193.0	202.3	211.5	220.8	230.0	239.3	248.5	257.8	267.0	276.3	285.5	294.8	304.0	313.3	322.5	331.8	341.0	350.3	359.5	368.8	
7										175.0	184.8	194.5	204.3	214.0	223.8	233.5	243.3	253.0	262.8	272.5	282.3	292.0	301.8	311.5	321.3	331.0	340.8	350.5	360.3	370.0	379.8	389.5	
7-1/2											195.0	205.3	215.5	225.8	236.0	246.3	256.5	266.8	277.0	287.3	297.5	307.8	318.0	328.3	338.5	348.8	359.0	369.3	379.5	389.8	399.8	409.8	
8												216.0	226.8	237.5	248.3	259.0	269.8	280.5	291.3	302.0	312.8	323.5	334.3	345.0	355.8	366.5	377.3	388.0	398.8	409.5	420.3	431.0	
8-1/2													238.0	249.3	260.5	271.8	283.0	294.3	305.5	316.8	328.0	339.3	350.5	361.8	373.0	384.3	395.5	406.8	418.0	429.3	440.5	451.8	
9														261.0	272.8	284.5	296.3	308.0	319.8	331.5	343.3	355.0	366.8	378.5	390.3	402.0	413.8	425.5	437.3	449.0	460.8	472.5	
9-1/2															283.0	297.3	309.5	321.8	334.0	346.3	358.5	370.8	383.0	395.3	407.5	419.8	432.0	444.3	456.5	468.8	481.0	493.3	
10																310.0	322.8	335.5	348.3	361.0	373.8	386.5	399.3	412.0	424.8	437.5	450.3	463.0	475.8	488.5	501.3	514.0	
10-1/2																	336.0	349.3	362.5	375.8	389.0	402.3	415.5	428.8	442.0	455.3	468.5	481.8	495.0	508.3	521.5	534.8	
11																		363.0	376.8	390.5	404.3	418.0	431.8	445.5	459.3	473.0	486.8	500.5	514.3	528.0	541.8	555.5	
11-1/2																			391.0	405.3	419.5	433.8	448.0	462.3	476.5	490.8	505.0	519.3	533.5	547.8	562.0	576.3	
12																				420.0	434.8	449.5	464.3	479.0	493.8	508.5	523.0	537.5	552.0	566.5	581.0	595.5	
12-1/2																					450.0	465.3	480.5	495.8	511.0	526.3	541.5	556.8	572.0	587.3	602.5	617.8	
13																						481.0	496.8	512.5	528.3	544.0	559.8	575.5	591.3	607.0	622.8	638.5	
13-1/2																							513.0	529.3	545.5	561.8	578.0	594.3	610.5	626.8	643.0	659.3	
14																								546.0	562.8	579.5	596.3	613.0	629.8	646.5	663.3	680.0	
14-1/2																									580.0	597.3	614.5	631.8	649.0	666.3	683.5	700.8	718.0
15																										615.0	632.5	650.0	667.5	685.0	702.5	720.0	737.5
16																											650.0	667.5	685.0	702.5	720.0	737.5	755.0
17																												685.0	702.5	720.0	737.5	755.0	772.5
18																													720.0	737.5	755.0	772.5	790.0
19																														755.0	772.5	790.0	807.5
																																	825.0
																																	850.0
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20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48-INCHES	
235.1	246.1	257.1	268.1	279.1	290.1	301.1	312.1	323.1	334.1	345.1	356.1	367.1	378.1	389.1	400.1	411.1	422.1	433.1	444.1	455.1	466.1	477.1	488.1	499.1	510.1	521.1	532.1	543.1	2-3/4
246.5	258.0	269.5	281.0	292.5	304.0	315.5	327.0	338.5	350.0	361.5	373.0	384.5	396.0	407.5	419.0	430.5	442.0	453.5	465.0	476.5	488.0	499.5	511.0	522.5	534.0	545.5	557.0	568.5	3
269.3	281.8	294.3	306.8	319.3	331.8	344.3	356.8	369.3	381.8	394.3	406.8	419.3	431.8	444.3	456.8	469.3	481.8	494.3	506.8	519.3	531.8	544.3	556.8	569.3	581.8	594.3	606.8	619.3	3-1/2
292.0	305.5	319.0	332.5	346.0	359.5	373.0	386.5	400.0	413.5	427.0	440.5	454.0	467.5	481.0	494.5	508.0	521.5	535.0	548.5	562.0	575.5	589.0	602.5	616.0	629.5	643.0	656.5	670.0	4
314.8	329.3	343.8	358.3	372.8	387.3	401.8	416.3	430.8	445.3	459.8	474.3	488.8	503.3	517.8	532.3	546.8	561.3	575.8	590.3	604.8	619.3	633.8	648.3	662.8	677.3	691.8	706.3	720.8	4-1/2
337.5	353.0	368.5	384.0	399.5	415.0	430.5	446.0	461.5	477.0	492.5	508.0	523.5	539.0	554.5	570.0	585.5	601.0	616.5	632.0	647.5	663.0	678.5	694.0	709.5	725.0	740.5	756.0	771.5	5
360.3	376.8	393.3	409.8	426.3	442.8	459.3	475.8	492.3	508.8	525.3	541.8	558.3	574.8	591.3	607.8	624.3	640.8	657.3	673.8	690.3	706.8	723.3	739.8	756.3	772.8	789.3	805.8	822.3	5-1/2
383.0	400.5	418.0	435.5	453.0	470.5	488.0	505.5	523.0	540.5	558.0	575.5	593.0	610.5	628.0	645.5	663.0	680.5	698.0	715.5	733.0	750.5	768.0	785.5	803.0	820.5	838.0	855.5	873.0	6
405.8	424.3	442.8	461.3	479.8	498.3	516.8	535.3	553.8	572.3	590.8	609.3	627.8	646.3	664.8	683.3	701.8	720.3	738.8	757.3	775.8	794.3	812.8	831.3	849.8	868.3	886.8	905.3	923.8	6-1/2
428.5	448.0	467.5	487.0	506.5	526.0	545.5	565.0	584.5	604.0	623.5	643.0	662.5	682.0	701.5	721.0	740.5	760.0	779.5	799.0	818.5	838.0	857.5	877.0	896.5	916.0	935.5	955.0	974.5	7
451.3	471.8	492.3	512.8	533.3	553.8	574.3	594.8	615.3	635.8	656.3	676.8	697.3	717.8	738.3	758.8	779.3	799.8	820.3	840.8	861.3	881.8	902.3	922.8	943.3	963.8	984.3	1,005	1,025	7-1/2
474.0	495.5	517.0	538.5	560.0	581.5	603.0	624.5	646.0	667.5	689.0	710.5	732.0	753.5	775.0	796.5	818.0	839.5	861.0	882.5	904.0	925.5	947.0	968.5	990.0	1,012	1,033	1,055	1,076	8
496.8	519.3	541.8	564.3	586.8	609.3	631.8	654.3	676.8	699.3	721.8	744.3	766.8	789.3	811.8	834.3	856.8	879.3	901.8	924.3	946.8	969.3	991.8	1,014	1,037	1,059	1,082	1,104	1,127	8-1/2
519.5	543.0	566.5	590.0	613.5	637.0	660.5	684.0	707.5	731.0	754.5	778.0	801.5	825.0	848.5	872.0	895.5	919.0	942.5	966.0	989.5	1,013	1,037	1,060	1,084	1,107	1,131	1,154	1,178	9
542.3	566.8	591.3	615.8	640.3	664.8	689.3	713.8	738.3	762.8	787.3	811.8	836.3	860.8	885.3	909.8	934.3	958.8	983.3	1,008	1,032	1,057	1,081	1,106	1,130	1,155	1,179	1,204	1,228	9-1/2
565.0	590.5	616.0	641.5	667.0	692.5	718.0	743.5	769.0	794.5	820.0	845.5	871.0	896.5	922.0	947.5	973.0	998.5	1,024	1,050	1,075	1,101	1,126	1,152	1,177	1,203	1,228	1,254	1,279	10
587.8	614.3	640.8	667.3	693.8	720.3	746.8	773.3	799.8	826.3	852.8	879.3	905.8	932.3	958.8	985.3	1,012	1,038	1,065	1,091	1,118	1,144	1,171	1,197	1,224	1,250	1,277	1,303	1,330	10-1/2
610.5	638.0	665.5	693.0	720.5	748.0	775.5	803.0	830.5	858.0	885.5	913.0	940.5	968.0	995.5	1,023	1,051	1,078	1,106	1,133	1,161	1,188	1,216	1,243	1,271	1,298	1,326	1,353	1,381	11
633.3	661.8	690.3	718.8	747.3	775.8	804.3	832.8	861.3	889.8	918.3	946.8	975.3	1,004	1,032	1,061	1,089	1,118	1,146	1,175	1,203	1,232	1,260	1,289	1,317	1,346	1,374	1,403	1,431	11-1/2
656.0	685.5	715.0	744.5	774.0	803.5	833.0	862.5	892.0	921.5	951.0	980.5	1,010	1,040	1,069	1,099	1,128	1,158	1,187	1,217	1,246	1,276	1,305	1,335	1,364	1,394	1,423	1,453	1,482	12
678.8	709.3	739.8	770.3	800.8	831.3	861.8	892.3	922.8	953.3	983.8	1,014	1,045	1,075	1,106	1,136	1,167	1,197	1,228	1,258	1,289	1,319	1,350	1,380	1,411	1,441	1,472	1,502	1,533	12-1/2
701.5	733.0	764.5	796.0	827.5	859.0	890.5	922.0	953.5	985.0	1,017	1,048	1,080	1,111	1,143	1,174	1,206	1,237	1,269	1,300	1,332	1,363	1,395	1,426	1,458	1,489	1,521	1,552	1,584	13
724.3	756.8	789.3	821.8	854.3	886.8	919.3	951.8	984.3	1,017	1,049	1,082	1,114	1,147	1,179	1,212	1,244	1,277	1,309	1,342	1,374	1,407	1,439	1,472	1,504	1,537	1,569	1,602	1,634	13-1/2
747.0	780.5	813.0	845.5	881.0	914.5	948.0	981.5	1,015	1,049	1,082	1,116	1,149	1,183	1,216	1,250	1,283	1,317	1,350	1,384	1,417	1,451	1,484	1,518	1,551	1,585	1,618	1,652	1,685	14
769.8	804.3	836.8	869.3	907.8	942.3	976.8	1,011	1,046	1,080	1,115	1,149	1,184	1,218	1,253	1,287	1,322	1,356	1,391	1,425	1,460	1,494	1,529	1,563	1,598	1,632	1,667	1,701	1,736	14-1/2
792.5	828.0	863.5	899.0	934.5	970.0	1,006	1,041	1,077	1,112	1,148	1,183	1,219	1,254	1,290	1,325	1,361	1,396	1,432	1,467	1,503	1,538	1,574	1,609	1,645	1,680	1,716	1,751	1,787	15
818.0	855.5	893.0	930.5	968.0	1,006	1,044	1,082	1,120	1,158	1,196	1,234	1,272	1,310	1,348	1,386	1,424	1,462	1,500	1,538	1,576	1,614	1,652	1,690	1,728	1,766	1,804	1,842	1,880	16
843.0	881.5	920.0	958.5	997.0	1,035	1,074	1,112	1,151	1,189	1,228	1,266	1,305	1,343	1,382	1,420	1,459	1,497	1,536	1,574	1,613	1,651	1,690	1,728	1,767	1,805	1,844	1,882	1,921	17
868.0	907.5	947.0	986.5	1,026	1,066	1,106	1,146	1,186	1,226	1,266	1,306	1,346	1,386	1,426	1,466	1,506	1,546	1,586	1,626	1,666	1,706	1,746	1,786	1,826	1,866	1,906	1,946	1,986	18
893.0	933.5	974.0	1,014.5	1,055	1,096	1,137	1,178	1,219	1,260	1,301	1,342	1,383	1,424	1,465	1,506	1,547	1,588	1,629	1,670	1,711	1,752	1,793	1,834	1,875	1,916	1,957	1,998	2,039	19
918.0	959.5	1,001.0	1,042.5	1,084	1,125	1,167	1,208	1,249	1,290	1,331	1,372	1,413	1,454	1,495	1,536	1,577	1,618	1,659	1,700	1,741	1,782	1,823	1,864	1,905	1,946	1,987	2,028	2,069	

$2\frac{3}{4}$     3"     $3\frac{1}{2}$ "    4"     $4\frac{1}{2}$ "    5"     $5\frac{1}{2}$ "    6"     $6\frac{1}{2}$ "    7"     $7\frac{1}{2}$ "    8"     $8\frac{1}{2}$ "





INCHES →	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
20	1,020	1,066	1,111	1,157	1,202	1,248	1,293	1,339	1,384	1,430	1,475	1,521	1,566	1,612	1,657	1,703	1,748	1,794	1,839	1,885	1,930	1,976	2,021	2,067	2,112	2,158	2,203	2,249	2,294
21		1,113	1,161	1,208	1,256	1,303	1,351	1,398	1,446	1,493	1,541	1,588	1,636	1,683	1,731	1,778	1,826	1,873	1,921	1,968	2,016	2,063	2,111	2,158	2,206	2,253	2,301	2,348	2,396
22			1,210	1,260	1,309	1,359	1,408	1,458	1,507	1,557	1,606	1,656	1,705	1,755	1,804	1,854	1,903	1,953	2,002	2,052	2,101	2,151	2,200	2,250	2,299	2,349	2,398	2,448	2,497
23				1,311	1,362	1,414	1,466	1,517	1,569	1,620	1,672	1,723	1,775	1,826	1,878	1,929	1,981	2,032	2,084	2,135	2,187	2,238	2,290	2,343	2,393	2,444	2,496	2,547	2,599
24					1,416	1,470	1,523	1,577	1,630	1,684	1,737	1,791	1,844	1,898	1,951	2,005	2,058	2,112	2,165	2,219	2,272	2,326	2,379	2,433	2,486	2,540	2,593	2,647	2,700
25						1,525	1,581	1,636	1,692	1,747	1,803	1,858	1,914	1,969	2,025	2,080	2,136	2,191	2,247	2,302	2,358	2,413	2,469	2,524	2,580	2,635	2,691	2,746	2,802
26							1,638	1,696	1,753	1,811	1,868	1,926	1,983	2,041	2,098	2,156	2,213	2,271	2,328	2,386	2,443	2,501	2,558	2,616	2,673	2,731	2,788	2,846	2,903
27								1,756	1,815	1,874	1,934	1,993	2,053	2,112	2,172	2,231	2,291	2,350	2,410	2,469	2,529	2,588	2,648	2,707	2,767	2,826	2,886	2,945	3,005
28									1,876	1,938	1,999	2,061	2,122	2,184	2,245	2,307	2,368	2,430	2,491	2,553	2,614	2,676	2,737	2,799	2,860	2,922	2,983	3,045	3,106
29										2,001	2,065	2,128	2,192	2,255	2,319	2,382	2,446	2,509	2,573	2,636	2,700	2,763	2,827	2,890	2,954	3,017	3,081	3,144	3,208
30											2,130	2,196	2,261	2,327	2,392	2,458	2,523	2,589	2,654	2,720	2,785	2,851	2,916	2,982	3,047	3,113	3,178	3,244	3,309
31												2,263	2,331	2,398	2,466	2,533	2,601	2,668	2,736	2,803	2,871	2,938	3,006	3,073	3,141	3,208	3,276	3,343	3,411
32													2,400	2,470	2,539	2,609	2,678	2,748	2,817	2,887	2,956	3,026	3,095	3,165	3,234	3,304	3,373	3,443	3,512
33														2,541	2,613	2,684	2,756	2,827	2,899	2,970	3,042	3,113	3,185	3,256	3,328	3,399	3,471	3,542	3,614
34															2,686	2,760	2,833	2,907	2,980	3,054	3,127	3,201	3,274	3,348	3,421	3,495	3,568	3,642	3,715
35																2,835	2,911	2,986	3,062	3,137	3,213	3,288	3,364	3,439	3,515	3,590	3,666	3,741	3,817
36																	2,988	3,066	3,143	3,221	3,298	3,376	3,453	3,531	3,608	3,686	3,763	3,841	3,918
37																		3,145	3,225	3,304	3,384	3,463	3,543	3,622	3,702	3,781	3,861	3,940	4,020
38																			3,306	3,388	3,469	3,551	3,632	3,714	3,795	3,877	3,958	4,040	4,121
39																				3,471	3,555	3,638	3,722	3,805	3,889	3,972	4,056	4,139	4,223
40																					3,640	3,726	3,811	3,897	3,982	4,068	4,153	4,239	4,324
41																						3,813	3,901	3,988	4,076	4,163	4,251	4,338	4,426
42																							3,990	4,080	4,169	4,259	4,348	4,438	4,527
43																								4,171	4,263	4,354	4,446	4,537	4,629
44																									4,356	4,450	4,543	4,637	4,730
45																										4,545	4,641	4,736	4,832
46																											4,738	4,836	4,933
47																												4,935	5,035
48																													5,136

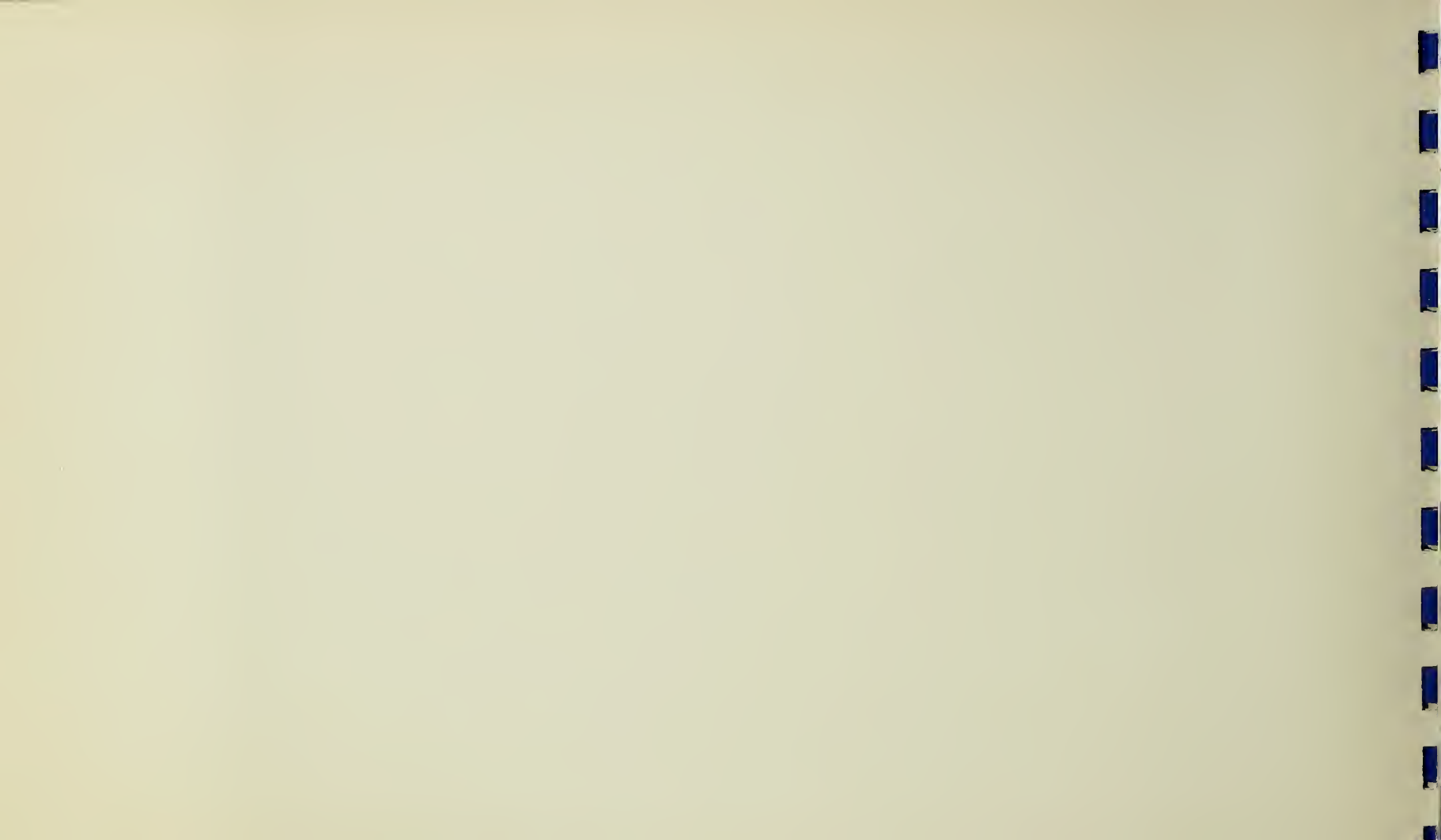
3"      3 1/2"      4"      4 1/2"      5"      5 1/2"      6"      6 1/2"      7"      7 1/2"      8"      8 1/2"



INCHES	3	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19
3	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	102.0	108.0	114.0	120.0	126.0	132.0	138.0	144.0	150.0	156.0	162.0	168.0	174.0	180.0	186.0	192.0	198.0	210.0	222.0	234.0	246.0
3-1/2		66.5	73.0	79.5	86.0	92.5	99.0	105.5	112.0	118.5	125.0	131.5	138.0	144.5	151.0	157.5	164.0	170.5	177.0	183.5	190.0	196.5	203.0	209.5	216.0	229.0	242.0	255.0	268.0
4			80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0	157.0	164.0	171.0	178.0	185.0	192.0	199.0	206.0	213.0	220.0	227.0	234.0	248.0	262.0	276.0	290.0
4-1/2				94.5	102.0	109.5	117.0	124.5	132.0	139.5	147.0	154.5	162.0	169.5	177.0	184.5	192.0	199.5	207.0	214.5	222.0	229.5	237.0	244.5	252.0	267.0	282.0	297.0	312.0
5					110.0	118.0	126.0	134.0	142.0	150.0	158.0	166.0	174.0	182.0	190.0	198.0	206.0	214.0	222.0	230.0	238.0	246.0	254.0	262.0	270.0	286.0	302.0	318.0	334.0
5-1/2						126.5	135.0	143.5	152.0	160.5	169.0	177.5	186.0	194.5	203.0	211.5	220.0	228.5	237.0	245.5	254.0	262.5	271.0	279.5	288.0	305.0	322.0	339.0	356.0
6							144.0	153.0	162.0	171.0	180.0	189.0	198.0	207.0	216.0	225.0	234.0	243.0	252.0	261.0	270.0	279.0	288.0	297.0	306.0	324.0	342.0	360.0	378.0
6-1/2								162.5	172.0	181.5	191.0	200.5	210.0	219.5	229.0	238.5	248.0	257.5	267.0	276.5	286.0	295.5	305.0	314.5	324.0	343.0	362.0	381.0	400.0
7									182.0	192.0	202.0	212.0	222.0	232.0	242.0	252.0	262.0	272.0	282.0	292.0	302.0	312.0	322.0	332.0	342.0	362.0	382.0	402.0	422.0
7-1/2										202.5	213.0	223.5	234.0	244.5	255.0	265.5	276.0	286.5	297.0	307.5	318.0	328.5	339.0	349.5	360.0	381.0	402.0	423.0	444.0
8											224.0	235.0	246.0	257.0	268.0	279.0	290.0	301.0	312.0	323.0	334.0	345.0	356.0	367.0	378.0	400.0	422.0	444.0	466.0
8-1/2												246.5	258.0	269.5	281.0	292.5	304.0	315.5	327.0	338.5	350.0	361.5	373.0	384.5	396.0	419.0	442.0	465.0	488.0
9													270.0	282.0	294.0	306.0	318.0	330.0	342.0	354.0	366.0	378.0	390.0	402.0	414.0	438.0	462.0	486.0	510.0
9-1/2														294.5	307.0	319.5	332.0	344.5	357.0	369.5	382.0	394.5	407.0	419.5	432.0	457.0	482.0	507.0	532.0
10															320.0	333.0	346.0	359.0	372.0	385.0	398.0	411.0	424.0	437.0	450.0	476.0	502.0	528.0	554.0
10-1/2																346.5	360.0	373.5	387.0	400.5	414.0	427.5	441.0	454.5	468.0	495.0	522.0	549.0	576.0
11																	374.0	388.0	402.0	416.0	430.0	444.0	458.0	472.0	486.0	514.0	542.0	570.0	598.0
11-1/2																		402.5	417.0	431.5	446.0	460.5	475.0	489.5	504.0	533.0	562.0	591.0	620.0
12																			432.0	447.0	462.0	477.0	492.0	507.0	522.0	552.0	582.0	612.0	642.0
12-1/2																				462.5	478.0	493.5	509.0	524.5	540.0	571.0	602.0	633.0	664.0
13																					494.0	510.0	526.0	542.0	558.0	590.0	622.0	654.0	686.0
13-1/2																						526.5	543.0	559.5	576.0	609.0	642.0	675.0	708.0
14																							560.0	577.0	594.0	628.0	662.0	696.0	730.0
14-1/2																								594.5	612.0	647.0	682.0	717.0	752.0
15																									630.0	666.0	702.0	738.0	774.0
16																										704.0	742.0	780.0	818.0
17																											782.0	822.0	862.0
18																												864.0	906.0
19																													950.0

20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48--INCHES	
258.0	270.0	282.0	294.0	306.0	318.0	330.0	342.0	354.0	366.0	378.0	390.0	402.0	414.0	426.0	438.0	450.0	462.0	474.0	486.0	498.0	510.0	522.0	534.0	546.0	558.0	570.0	582.0	594.0	3
281.0	294.0	307.0	320.0	333.0	346.0	359.0	372.0	385.0	398.0	411.0	424.0	437.0	450.0	463.0	476.0	489.0	502.0	515.0	528.0	541.0	554.0	567.0	580.0	593.0	606.0	619.0	632.0	645.0	3-1/2
304.0	318.0	332.0	346.0	360.0	374.0	388.0	402.0	416.0	430.0	444.0	458.0	472.0	486.0	500.0	514.0	528.0	542.0	556.0	570.0	584.0	598.0	612.0	626.0	640.0	654.0	668.0	682.0	696.0	4
327.0	342.0	357.0	372.0	387.0	402.0	417.0	432.0	447.0	462.0	477.0	492.0	507.0	522.0	537.0	552.0	567.0	582.0	597.0	612.0	627.0	642.0	657.0	672.0	687.0	702.0	717.0	732.0	747.0	4-1/2
350.0	366.0	382.0	398.0	414.0	430.0	446.0	462.0	478.0	494.0	510.0	526.0	542.0	558.0	574.0	590.0	606.0	622.0	638.0	654.0	670.0	686.0	702.0	718.0	734.0	750.0	766.0	782.0	798.0	5
373.0	390.0	407.0	424.0	441.0	458.0	475.0	492.0	509.0	526.0	543.0	560.0	577.0	594.0	611.0	628.0	645.0	662.0	679.0	696.0	713.0	730.0	747.0	764.0	781.0	798.0	815.0	832.0	849.0	5-1/2
396.0	414.0	432.0	450.0	468.0	486.0	504.0	522.0	540.0	558.0	576.0	594.0	612.0	630.0	648.0	666.0	684.0	702.0	720.0	738.0	756.0	774.0	792.0	810.0	828.0	846.0	864.0	882.0	900.0	6
419.0	438.0	457.0	476.0	495.0	514.0	533.0	552.0	571.0	590.0	609.0	628.0	647.0	666.0	685.0	704.0	723.0	742.0	761.0	780.0	799.0	818.0	837.0	856.0	875.0	894.0	913.0	932.0	951.0	6-1/2
442.0	462.0	482.0	502.0	522.0	542.0	562.0	582.0	602.0	622.0	642.0	662.0	682.0	702.0	722.0	742.0	762.0	782.0	802.0	822.0	842.0	862.0	882.0	902.0	922.0	942.0	962.0	982.0	1,002.0	7
465.0	486.0	507.0	528.0	549.0	570.0	591.0	612.0	633.0	654.0	675.0	696.0	717.0	738.0	759.0	780.0	801.0	822.0	843.0	864.0	885.0	906.0	927.0	948.0	969.0	990.0	1,011.0	1,032.0	1,053.0	7-1/2
488.0	510.0	532.0	554.0	576.0	598.0	620.0	642.0	664.0	686.0	708.0	730.0	752.0	774.0	796.0	818.0	840.0	862.0	884.0	906.0	928.0	950.0	972.0	994.0	1,016.0	1,038.0	1,060.0	1,082.0	1,104.0	8
511.0	534.0	557.0	580.0	603.0	626.0	649.0	672.0	695.0	718.0	741.0	764.0	787.0	810.0	833.0	856.0	879.0	902.0	925.0	948.0	971.0	994.0	1,017.0	1,040.0	1,063.0	1,086.0	1,109.0	1,132.0	1,155.0	8-1/2
534.0	558.0	582.0	606.0	630.0	654.0	678.0	702.0	726.0	750.0	774.0	798.0	822.0	846.0	870.0	894.0	918.0	942.0	966.0	990.0	1,014.0	1,038.0	1,062.0	1,086.0	1,110.0	1,134.0	1,158.0	1,182.0	1,206.0	9
557.0	582.0	607.0	632.0	657.0	682.0	707.0	732.0	757.0	782.0	807.0	832.0	857.0	882.0	907.0	932.0	957.0	982.0	1,007.0	1,032.0	1,057.0	1,082.0	1,107.0	1,132.0	1,157.0	1,182.0	1,207.0	1,232.0	1,257.0	9-1/2
580.0	606.0	632.0	658.0	684.0	710.0	736.0	762.0	788.0	814.0	840.0	866.0	892.0	918.0	944.0	970.0	996.0	1,022.0	1,048.0	1,074.0	1,100.0	1,126.0	1,152.0	1,178.0	1,204.0	1,230.0	1,256.0	1,282.0	1,308.0	10
603.0	630.0	657.0	684.0	711.0	738.0	765.0	792.0	819.0	846.0	873.0	900.0	927.0	954.0	981.0	1,008.0	1,035.0	1,062.0	1,089.0	1,116.0	1,143.0	1,170.0	1,197.0	1,224.0	1,251.0	1,278.0	1,305.0	1,332.0	1,359.0	10-1/2
626.0	654.0	682.0	710.0	738.0	766.0	794.0	822.0	850.0	878.0	906.0	934.0	962.0	990.0	1,018.0	1,046.0	1,074.0	1,102.0	1,130.0	1,158.0	1,186.0	1,214.0	1,242.0	1,270.0	1,298.0	1,326.0	1,354.0	1,382.0	1,410.0	11
649.0	678.0	707.0	736.0	765.0	794.0	823.0	852.0	881.0	910.0	939.0	968.0	997.0	1,026.0	1,055.0	1,084.0	1,113.0	1,142.0	1,171.0	1,200.0	1,229.0	1,258.0	1,287.0	1,316.0	1,345.0	1,374.0	1,403.0	1,432.0	1,461.0	11-1/2
672.0	702.0	732.0	762.0	792.0	822.0	852.0	882.0	912.0	942.0	972.0	1,002.0	1,032.0	1,062.0	1,092.0	1,122.0	1,152.0	1,182.0	1,212.0	1,242.0	1,272.0	1,302.0	1,332.0	1,362.0	1,392.0	1,422.0	1,452.0	1,482.0	1,512.0	12
695.0	726.0	757.0	788.0	819.0	850.0	881.0	912.0	943.0	974.0	1,005.0	1,036.0	1,067.0	1,098.0	1,129.0	1,160.0	1,191.0	1,222.0	1,253.0	1,284.0	1,315.0	1,346.0	1,377.0	1,408.0	1,439.0	1,470.0	1,501.0	1,532.0	1,563.0	12-1/2
718.0	750.0	782.0	814.0	846.0	878.0	910.0	942.0	974.0	1,006.0	1,038.0	1,070.0	1,102.0	1,134.0	1,166.0	1,198.0	1,230.0	1,262.0	1,294.0	1,326.0	1,358.0	1,390.0	1,422.0	1,454.0	1,486.0	1,518.0	1,550.0	1,582.0	1,614.0	13
741.0	774.0	807.0	840.0	873.0	906.0	939.0	972.0	1,005.0	1,038.0	1,071.0	1,104.0	1,137.0	1,170.0	1,203.0	1,236.0	1,269.0	1,302.0	1,335.0	1,368.0	1,401.0	1,434.0	1,467.0	1,500.0	1,533.0	1,566.0	1,599.0	1,632.0	1,665.0	13-1/2
764.0	798.0	832.0	866.0	900.0	934.0	968.0	1,002.0	1,036.0	1,070.0	1,104.0	1,138.0	1,172.0	1,206.0	1,240.0	1,274.0	1,308.0	1,342.0	1,376.0	1,410.0	1,444.0	1,478.0	1,512.0	1,546.0	1,580.0	1,614.0	1,648.0	1,682.0	1,716.0	14
787.0	822.0	857.0	892.0	927.0	962.0	997.0	1,032.0	1,067.0	1,102.0	1,137.0	1,172.0	1,207.0	1,242.0	1,277.0	1,312.0	1,347.0	1,382.0	1,417.0	1,452.0	1,487.0	1,522.0	1,557.0	1,592.0	1,627.0	1,662.0	1,697.0	1,732.0	1,767.0	14-1/2
810.0	846.0	882.0	918.0	954.0	990.0	1,026.0	1,062.0	1,098.0	1,134.0	1,170.0	1,206.0	1,242.0	1,278.0	1,314.0	1,350.0	1,386.0	1,422.0	1,458.0	1,494.0	1,530.0	1,566.0	1,602.0	1,638.0	1,674.0	1,710.0	1,746.0	1,782.0	1,818.0	15
856.0	894.0	932.0	970.0	1,008.0	1,046.0	1,084.0	1,122.0	1,160.0	1,198.0	1,236.0	1,274.0	1,312.0	1,350.0	1,388.0	1,426.0	1,464.0	1,502.0	1,540.0	1,578.0	1,616.0	1,654.0	1,692.0	1,730.0	1,768.0	1,806.0	1,844.0	1,882.0	1,920.0	16
902.0	942.0	982.0	1,022.0	1,062.0	1,102.0	1,142.0	1,182.0	1,222.0	1,262.0	1,302.0	1,342.0	1,382.0	1,422.0	1,462.0	1,502.0	1,542.0	1,582.0	1,622.0	1,662.0	1,702.0	1,742.0	1,782.0	1,822.0	1,862.0	1,902.0	1,942.0	1,982.0	2,022.0	17
948.0	990.0	1,032.0	1,074.0	1,116.0	1,158.0	1,200.0	1,242.0	1,284.0	1,326.0	1,368.0	1,410.0	1,452.0	1,494.0	1,536.0	1,578.0	1,620.0	1,662.0	1,704.0	1,746.0	1,788.0	1,830.0	1,872.0	1,914.0	1,956.0	1,998.0	2,040.0	2,082.0	2,124.0	18
994.0	1,038.0	1,082.0	1,126.0	1,170.0	1,214.0	1,258.0	1,302.0	1,346.0	1,390.0	1,434.0	1,478.0	1,522.0	1,566.0	1,610.0	1,654.0	1,698.0	1,742.0	1,786.0	1,830.0	1,874.0	1,918.0	1,962.0	2,006.0	2,050.0	2,094.0	2,138.0	2,182.0	2,226.0	19

3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2"



INCHES	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
20	1,040	1,086	1,132	1,178	1,224	1,270	1,316	1,362	1,408	1,454	1,500	1,546	1,592	1,638	1,684	1,730	1,776	1,822	1,868	1,914	1,960	2,006	2,052	2,098	2,144	2,190	2,236	2,282	2,328
21		1,134	1,182	1,230	1,278	1,326	1,374	1,422	1,470	1,518	1,566	1,614	1,662	1,710	1,758	1,806	1,854	1,902	1,950	1,998	2,046	2,094	2,142	2,190	2,238	2,286	2,334	2,382	2,430
22			1,232	1,282	1,332	1,382	1,432	1,482	1,532	1,582	1,632	1,682	1,732	1,782	1,832	1,882	1,932	1,982	2,032	2,082	2,132	2,182	2,232	2,282	2,332	2,382	2,432	2,482	2,532
23				1,334	1,386	1,438	1,490	1,542	1,594	1,646	1,698	1,750	1,802	1,854	1,906	1,958	2,010	2,062	2,114	2,166	2,218	2,270	2,322	2,374	2,426	2,478	2,530	2,582	2,634
24					1,440	1,494	1,548	1,602	1,656	1,710	1,764	1,818	1,872	1,926	1,980	2,034	2,088	2,142	2,196	2,250	2,304	2,358	2,412	2,466	2,520	2,574	2,628	2,682	2,736
25						1,550	1,606	1,662	1,718	1,774	1,830	1,886	1,942	1,998	2,054	2,110	2,166	2,222	2,278	2,334	2,390	2,446	2,502	2,558	2,614	2,670	2,726	2,782	2,838
26							1,664	1,722	1,780	1,838	1,896	1,954	2,012	2,070	2,128	2,186	2,244	2,302	2,360	2,418	2,476	2,534	2,592	2,650	2,708	2,766	2,824	2,882	2,940
27								1,782	1,842	1,902	1,962	2,022	2,082	2,142	2,202	2,262	2,322	2,382	2,442	2,502	2,562	2,622	2,682	2,742	2,802	2,862	2,922	2,982	3,042
28									1,904	1,966	2,028	2,090	2,152	2,214	2,276	2,338	2,400	2,462	2,524	2,586	2,648	2,710	2,772	2,834	2,896	2,958	3,020	3,082	3,144
29										2,030	2,094	2,158	2,222	2,286	2,350	2,414	2,478	2,542	2,606	2,670	2,734	2,798	2,862	2,926	2,990	3,054	3,118	3,182	3,246
30											2,160	2,226	2,292	2,358	2,424	2,490	2,556	2,622	2,688	2,754	2,820	2,886	2,952	3,018	3,084	3,150	3,216	3,282	3,348
31												2,294	2,362	2,430	2,498	2,566	2,634	2,702	2,770	2,838	2,906	2,974	3,042	3,110	3,178	3,246	3,314	3,382	3,450
32													2,432	2,502	2,572	2,642	2,712	2,782	2,852	2,922	2,992	3,062	3,132	3,202	3,272	3,342	3,412	3,482	3,552
33														2,574	2,646	2,718	2,790	2,862	2,934	3,006	3,078	3,150	3,222	3,294	3,366	3,438	3,510	3,582	3,654
34															2,720	2,794	2,868	2,942	3,016	3,090	3,164	3,238	3,312	3,386	3,460	3,534	3,608	3,682	3,756
35																2,870	2,946	3,022	3,098	3,174	3,250	3,326	3,402	3,478	3,554	3,630	3,706	3,782	3,858
36																	3,024	3,102	3,180	3,258	3,336	3,414	3,492	3,570	3,648	3,726	3,804	3,882	3,960
37																		3,182	3,262	3,342	3,422	3,502	3,582	3,662	3,742	3,822	3,902	3,982	4,062
38																			3,344	3,426	3,508	3,590	3,672	3,754	3,836	3,918	4,000	4,082	4,164
39																				3,510	3,594	3,678	3,762	3,846	3,930	4,014	4,098	4,182	4,266
40																					3,680	3,766	3,852	3,938	4,024	4,110	4,196	4,282	4,368
41																						3,854	3,942	4,030	4,118	4,206	4,294	4,382	4,470
42																							4,032	4,122	4,212	4,302	4,392	4,482	4,572
43																								4,214	4,306	4,398	4,490	4,582	4,674
44																									4,400	4,494	4,588	4,682	4,776
45																										4,590	4,686	4,782	4,878
46																											4,784	4,882	4,980
47																												4,982	5,082
48																													5,184

$3\frac{1}{2}$     4"     $4\frac{1}{2}$     5"     $5\frac{1}{2}$     6"     $6\frac{1}{2}$     7"     $7\frac{1}{2}$     8"     $8\frac{1}{2}$



INCHES	3-1/2	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	
3-1/2	73.5																												
4	80.5	73.5																											
4-1/2	88.0	80.5	73.5																										
5		103.5	88.0	73.5																									
5-1/2		111.5	103.5	88.0	73.5																								
6		120.0	111.5	103.5	88.0	73.5																							
6-1/2		128.5	120.0	111.5	103.5	88.0	73.5																						
7		137.5	128.5	120.0	111.5	103.5	88.0	73.5																					
7-1/2		146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5																				
8		155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5																			
8-1/2		165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5																		
9		175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5																	
9-1/2		185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5																
10		195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5															
10-1/2		205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5														
11		215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5													
11-1/2		225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5												
12		235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5											
12-1/2		245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5										
13		255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5									
13-1/2		265.5	255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5								
14		275.5	265.5	255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5							
14-1/2		285.5	275.5	265.5	255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5						
15		295.5	285.5	275.5	265.5	255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5					
16		305.5	295.5	285.5	275.5	265.5	255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5				
17		315.5	305.5	295.5	285.5	275.5	265.5	255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5			
18		325.5	315.5	305.5	295.5	285.5	275.5	265.5	255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5		
19		335.5	325.5	315.5	305.5	295.5	285.5	275.5	265.5	255.5	245.5	235.5	225.5	215.5	205.5	195.5	185.5	175.0	165.0	155.5	146.5	137.5	128.5	120.0	111.5	103.5	88.0	73.5	



20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
304.5	318.5	332.5	346.5	360.5	374.5	388.5	402.5	416.5	430.5	444.5	458.5	472.5	486.5	500.5	514.5	528.5	542.5	556.5	570.5	584.5	598.5	612.5	626.5	640.5	654.5	668.5	682.5	696.5	3-1/2
328.0	343.0	358.0	373.0	388.0	403.0	418.0	433.0	448.0	463.0	478.0	493.0	508.0	523.0	538.0	553.0	568.0	583.0	598.0	613.0	628.0	643.0	658.0	673.0	688.0	703.0	718.0	733.0	748.0	4
351.5	367.5	383.5	399.5	415.5	431.5	447.5	463.5	479.5	495.5	511.5	527.5	543.5	559.5	575.5	591.5	607.5	623.5	639.5	655.5	671.5	687.5	703.5	719.5	735.5	751.5	767.5	783.5	799.5	4-1/2
375.0	392.0	409.0	426.0	443.0	460.0	477.0	494.0	511.0	528.0	545.0	562.0	579.0	596.0	613.0	630.0	647.0	664.0	681.0	698.0	715.0	732.0	749.0	766.0	783.0	800.0	817.0	834.0	851.0	5
398.5	416.5	434.5	452.5	470.5	488.5	506.5	524.5	542.5	560.5	578.5	596.5	614.5	632.5	650.5	668.5	686.5	704.5	722.5	740.5	758.5	776.5	794.5	812.5	830.5	848.5	866.5	884.5	902.5	5-1/2
422.0	441.0	460.0	479.0	498.0	517.0	536.0	555.0	574.0	593.0	612.0	631.0	650.0	669.0	688.0	707.0	726.0	745.0	764.0	783.0	802.0	821.0	840.0	859.0	878.0	897.0	916.0	935.0	954.0	6
445.5	465.5	485.5	505.5	525.5	545.5	565.5	585.5	605.5	625.5	645.5	665.5	685.5	705.5	725.5	745.5	765.5	785.5	805.5	825.5	845.5	865.5	885.5	905.5	925.5	945.5	965.5	985.5	1,006	6-1/2
469.0	490.0	511.0	532.0	553.0	574.0	595.0	616.0	637.0	658.0	679.0	700.0	721.0	742.0	763.0	784.0	805.0	826.0	847.0	868.0	889.0	910.0	931.0	952.0	973.0	994.0	1,015	1,036	1,057	7
492.5	514.5	536.5	558.5	580.5	602.5	624.5	646.5	668.5	690.5	712.5	734.5	756.5	778.5	800.5	822.5	844.5	866.5	888.5	910.5	932.5	954.5	976.5	998.5	1,021	1,043	1,065	1,087	1,109	7-1/2
516.0	539.0	562.0	585.0	608.0	631.0	654.0	677.0	700.0	723.0	746.0	769.0	792.0	815.0	838.0	861.0	884.0	907.0	930.0	953.0	976.0	999.0	1,022	1,045	1,068	1,091	1,114	1,137	1,160	8
539.5	563.5	587.5	611.5	635.5	659.5	683.5	707.5	731.5	755.5	779.5	803.5	827.5	851.5	875.5	899.5	923.5	947.5	971.5	995.5	1,020	1,044	1,068	1,092	1,116	1,140	1,164	1,188	1,212	8-1/2
563.0	588.0	613.0	638.0	663.0	688.0	713.0	738.0	763.0	788.0	813.0	838.0	863.0	888.0	913.0	938.0	963.0	988.0	1,013	1,038	1,063	1,088	1,113	1,138	1,163	1,188	1,213	1,238	1,263	9
586.5	612.5	638.5	664.5	690.5	716.5	742.5	768.5	794.5	820.5	846.5	872.5	898.5	924.5	950.5	976.5	1,003	1,029	1,055	1,081	1,107	1,133	1,159	1,185	1,211	1,237	1,263	1,289	1,315	9-1/2
610.0	637.0	664.0	691.0	718.0	745.0	772.0	799.0	826.0	853.0	880.0	907.0	934.0	961.0	988.0	1,015	1,042	1,069	1,096	1,123	1,150	1,177	1,204	1,231	1,258	1,285	1,312	1,339	1,366	10
633.5	661.5	689.5	717.5	745.5	773.5	801.5	829.5	857.5	885.5	913.5	941.5	969.5	997.5	1,026	1,054	1,082	1,110	1,138	1,166	1,194	1,222	1,250	1,278	1,306	1,334	1,362	1,390	1,418	10-1/2
657.0	686.0	715.0	744.0	773.0	802.0	831.0	860.0	889.0	918.0	947.0	976.0	1,005	1,034	1,063	1,092	1,121	1,150	1,179	1,208	1,237	1,266	1,295	1,324	1,353	1,382	1,411	1,440	1,469	11
680.5	710.5	740.5	770.5	800.5	830.5	860.5	890.5	920.5	950.5	980.5	1,011	1,041	1,071	1,101	1,131	1,161	1,191	1,221	1,251	1,281	1,311	1,341	1,371	1,401	1,431	1,461	1,491	1,521	11-1/2
704.0	735.0	766.0	797.0	828.0	859.0	890.0	921.0	952.0	983.0	1,014	1,045	1,076	1,107	1,138	1,169	1,200	1,231	1,262	1,293	1,324	1,355	1,386	1,417	1,448	1,479	1,510	1,541	1,572	12
727.5	759.5	791.5	823.5	855.5	887.5	919.5	951.5	983.5	1,016	1,048	1,080	1,112	1,144	1,176	1,208	1,240	1,272	1,304	1,336	1,368	1,400	1,432	1,464	1,496	1,528	1,560	1,592	1,624	12-1/2
751.0	784.0	817.0	850.0	883.0	916.0	949.0	982.0	1,015	1,048	1,081	1,114	1,147	1,180	1,213	1,246	1,279	1,312	1,345	1,378	1,411	1,444	1,477	1,510	1,543	1,576	1,609	1,642	1,675	13
774.5	808.5	842.5	876.5	910.5	944.5	978.5	1,013	1,047	1,081	1,115	1,149	1,183	1,217	1,251	1,285	1,319	1,353	1,387	1,421	1,455	1,489	1,523	1,557	1,591	1,625	1,659	1,693	1,727	13-1/2
798.0	833.0	868.0	903.0	938.0	973.0	1,008	1,043	1,078	1,113	1,148	1,183	1,218	1,253	1,288	1,323	1,358	1,393	1,428	1,463	1,498	1,533	1,568	1,603	1,638	1,673	1,708	1,743	1,778	14
821.5	857.5	893.5	929.5	965.5	1,002	1,038	1,074	1,110	1,146	1,182	1,218	1,254	1,290	1,326	1,362	1,398	1,434	1,470	1,506	1,542	1,578	1,614	1,650	1,686	1,722	1,758	1,794	1,830	14-1/2
845.0	882.0	919.0	956.0	993.0	1,030	1,067	1,104	1,141	1,178	1,215	1,252	1,289	1,326	1,363	1,400	1,437	1,474	1,511	1,548	1,585	1,622	1,659	1,696	1,733	1,770	1,807	1,844	1,881	15
869.0	931.0	970.0	1,009	1,048	1,087	1,126	1,165	1,204	1,243	1,282	1,321	1,360	1,399	1,438	1,477	1,516	1,555	1,594	1,633	1,672	1,711	1,750	1,789	1,828	1,867	1,906	1,945	1,984	16
939.0	980.0	1,021	1,062	1,103	1,144	1,185	1,226	1,267	1,308	1,349	1,390	1,431	1,472	1,513	1,554	1,595	1,636	1,677	1,718	1,759	1,800	1,841	1,882	1,923	1,964	2,005	2,046	2,087	17
986.0	1,029	1,072	1,115	1,158	1,201	1,244	1,287	1,330	1,373	1,416	1,459	1,502	1,545	1,588	1,631	1,674	1,717	1,760	1,803	1,846	1,889	1,932	1,975	2,018	2,061	2,104	2,147	2,190	18
1,033	1,076	1,123	1,168	1,213	1,258	1,303	1,348	1,393	1,438	1,483	1,528	1,573	1,618	1,663	1,708	1,753	1,798	1,843	1,888	1,933	1,978	2,023	2,068	2,113	2,158	2,203	2,248	2,293	19

$3\frac{1}{2}$      $4$      $4\frac{1}{2}$      $5$      $5\frac{1}{2}$      $6$      $6\frac{1}{2}$      $7$      $7\frac{1}{2}$      $8$      $8\frac{1}{2}$



INCHES	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
20	1,080	1,127	1,174	1,221	1,268	1,315	1,362	1,409	1,456	1,503	1,550	1,597	1,644	1,691	1,738	1,785	1,832	1,879	1,926	1,973	2,020	2,067	2,114	2,161	2,208	2,255	2,302	2,349	2,396
21		1,176	1,225	1,274	1,323	1,372	1,421	1,470	1,519	1,568	1,617	1,666	1,715	1,764	1,813	1,862	1,911	1,960	2,009	2,058	2,107	2,156	2,205	2,254	2,303	2,352	2,401	2,450	2,499
22			1,276	1,327	1,378	1,429	1,480	1,531	1,582	1,633	1,684	1,735	1,786	1,837	1,888	1,939	1,990	2,041	2,092	2,143	2,194	2,245	2,296	2,347	2,398	2,449	2,500	2,551	2,602
23				1,380	1,433	1,486	1,539	1,592	1,645	1,698	1,751	1,804	1,857	1,910	1,963	2,016	2,069	2,122	2,175	2,228	2,281	2,334	2,387	2,440	2,493	2,546	2,599	2,652	2,705
24					1,488	1,543	1,598	1,653	1,708	1,763	1,818	1,873	1,928	1,983	2,038	2,093	2,148	2,203	2,258	2,313	2,368	2,423	2,478	2,533	2,588	2,643	2,698	2,753	2,808
25						1,600	1,657	1,714	1,771	1,828	1,885	1,942	1,999	2,056	2,113	2,170	2,227	2,284	2,341	2,398	2,455	2,512	2,569	2,626	2,683	2,740	2,797	2,854	2,911
26							1,716	1,775	1,834	1,893	1,952	2,011	2,070	2,129	2,188	2,247	2,306	2,365	2,424	2,483	2,542	2,601	2,660	2,719	2,778	2,837	2,896	2,955	3,014
27								1,836	1,897	1,958	2,019	2,080	2,141	2,202	2,263	2,324	2,385	2,446	2,507	2,568	2,629	2,690	2,751	2,812	2,873	2,934	2,995	3,056	3,117
28									1,960	2,023	2,086	2,149	2,212	2,275	2,338	2,401	2,464	2,527	2,590	2,653	2,716	2,779	2,842	2,905	2,968	3,031	3,094	3,157	3,220
29										2,088	2,153	2,218	2,283	2,348	2,413	2,478	2,543	2,608	2,673	2,738	2,803	2,868	2,933	2,998	3,063	3,128	3,193	3,258	3,323
30											2,220	2,287	2,354	2,421	2,488	2,555	2,622	2,689	2,756	2,823	2,890	2,957	3,024	3,091	3,158	3,225	3,292	3,359	3,426
31												2,356	2,425	2,494	2,563	2,632	2,701	2,770	2,839	2,908	2,977	3,046	3,115	3,184	3,253	3,322	3,391	3,460	3,529
32													2,496	2,567	2,638	2,709	2,780	2,851	2,922	2,993	3,064	3,135	3,206	3,277	3,348	3,419	3,490	3,561	3,632
33														2,640	2,713	2,786	2,859	2,932	3,005	3,078	3,151	3,224	3,297	3,370	3,443	3,516	3,589	3,662	3,735
34															2,788	2,863	2,938	3,013	3,088	3,163	3,238	3,313	3,388	3,463	3,538	3,613	3,688	3,763	3,838
35																2,940	3,017	3,094	3,171	3,248	3,325	3,402	3,479	3,556	3,632	3,710	3,787	3,864	3,941
36																	3,096	3,175	3,254	3,333	3,412	3,491	3,570	3,649	3,728	3,807	3,886	3,965	4,044
37																		3,256	3,337	3,418	3,499	3,580	3,661	3,742	3,823	3,904	3,985	4,066	4,147
38																			3,420	3,503	3,586	3,669	3,752	3,835	3,918	4,001	4,084	4,167	4,250
39																				3,588	3,673	3,758	3,843	3,928	4,013	4,098	4,183	4,268	4,353
40																					3,760	3,847	3,934	4,021	4,108	4,195	4,282	4,369	4,456
41																						3,936	4,025	4,114	4,203	4,292	4,381	4,470	4,559
42																							4,116	4,207	4,298	4,389	4,480	4,571	4,662
43																								4,300	4,393	4,486	4,579	4,672	4,765
44																									4,488	4,583	4,678	4,773	4,868
45																										4,680	4,777	4,874	4,971
46																											4,876	4,975	5,074
47																												5,076	5,177
48																													5,280

4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2"

INCHES	4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	
4	756.0	104.0	112.0	120.0	128.0	136.0	144.0	152.0	160.0	168.0	176.0	184.0	192.0	200.0	208.0	216.0	224.0	232.0	240.0	248.0	256.0	264.0	272.0	288.0	304.0	320.0	336.0	352.0	
4-1/2		112.5	121.0	129.5	138.0	146.5	155.0	163.5	172.0	180.5	189.0	197.5	206.0	214.5	223.0	231.5	240.0	248.5	257.0	265.5	274.0	282.5	291.0	308.0	325.0	342.0	359.0	376.0	
5			130.0	139.0	148.0	157.0	166.0	175.0	184.0	193.0	202.0	211.0	220.0	229.0	238.0	247.0	256.0	265.0	274.0	283.0	292.0	301.0	310.0	328.0	346.0	364.0	382.0	400.0	
5-1/2				148.5	158.0	167.5	177.0	186.5	196.0	205.5	215.0	224.5	234.0	243.5	253.0	262.5	272.0	281.5	291.0	300.5	310.0	319.5	329.0	348.0	367.0	386.0	405.0	424.0	
6					168.0	178.0	188.0	198.0	208.0	218.0	228.0	238.0	248.0	258.0	268.0	278.0	288.0	298.0	308.0	318.0	328.0	338.0	348.0	368.0	388.0	408.0	428.0	448.0	
6-1/2						188.5	199.0	209.5	220.0	230.5	241.0	251.5	262.0	272.5	283.0	293.5	304.0	314.5	325.0	335.5	346.0	356.5	367.0	388.0	409.0	430.0	451.0	472.0	
7							210.0	221.0	232.0	243.0	254.0	265.0	276.0	287.0	298.0	309.0	320.0	331.0	342.0	353.0	364.0	375.0	386.0	408.0	430.0	452.0	474.0	496.0	
7-1/2								232.5	244.0	255.5	267.0	278.5	290.0	301.5	313.0	324.5	336.0	347.5	359.0	370.5	382.0	393.5	405.0	428.0	451.0	474.0	497.0	520.0	
8									256.0	268.0	280.0	292.0	304.0	316.0	328.0	340.0	352.0	364.0	376.0	388.0	400.0	412.0	424.0	448.0	472.0	496.0	520.0	544.0	
8-1/2										280.5	293.0	305.5	318.0	330.5	343.0	355.5	368.0	380.5	393.0	405.5	418.0	430.5	443.0	468.0	493.0	518.0	543.0	568.0	
9											306.0	319.0	332.0	345.0	358.0	371.0	384.0	397.0	410.0	423.0	436.0	449.0	462.0	488.0	514.0	540.0	566.0	592.0	
9-1/2												332.5	346.0	359.5	373.0	386.5	400.0	413.5	427.0	440.5	454.0	467.5	481.0	508.0	535.0	562.0	589.0	616.0	
10													360.0	374.0	388.0	402.0	416.0	430.0	444.0	458.0	472.0	486.0	500.0	528.0	556.0	584.0	612.0	640.0	
10-1/2														388.5	403.0	417.5	432.0	446.5	461.0	475.5	490.0	504.5	519.0	548.0	577.0	606.0	635.0	664.0	
11															418.0	433.0	448.0	463.0	478.0	493.0	508.0	523.0	538.0	568.0	598.0	628.0	658.0	688.0	
11-1/2																448.5	464.0	479.5	495.0	510.5	526.0	541.5	557.0	588.0	619.0	650.0	681.0	712.0	
12																	480.0	496.0	512.0	528.0	544.0	560.0	576.0	608.0	640.0	672.0	704.0	736.0	
12-1/2																		512.5	529.0	545.5	562.0	578.5	595.0	628.0	661.0	694.0	727.0	760.0	
13																			546.0	563.0	580.0	597.0	614.0	648.0	682.0	716.0	750.0	784.0	
13-1/2																				580.5	598.0		615.5	633.0	668.0	703.0	738.0	773.0	808.0
14																					616.0	634.0	652.0	688.0	724.0	760.0	796.0	832.0	
14-1/2																						652.5	671.0	708.0	745.0	782.0	819.0	856.0	
15																							690.0	728.0	766.0	804.0	842.0	880.0	
16																								768.0	808.0	848.0	888.0	928.0	
17																									850.0	892.0	934.0	976.0	
18																										936.0	980.0	1,024	
19																											1,026	1,072	
20																												1,120	



21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48-INCHES	
368.0	384.0	400.0	416.0	432.0	448.0	464.0	480.0	496.0	512.0	528.0	544.0	560.0	576.0	592.0	608.0	624.0	640.0	656.0	672.0	688.0	704.0	720.0	736.0	752.0	768.0	784.0	800.0	4
393.0	410.0	427.0	444.0	461.0	478.0	495.0	512.0	529.0	546.0	563.0	580.0	597.0	614.0	631.0	648.0	665.0	682.0	699.0	716.0	733.0	750.0	767.0	784.0	801.0	818.0	835.0	852.0	4-1/2
418.0	436.0	454.0	472.0	490.0	508.0	526.0	544.0	562.0	580.0	598.0	616.0	634.0	652.0	670.0	688.0	706.0	724.0	742.0	760.0	778.0	796.0	814.0	832.0	850.0	868.0	886.0	904.0	5
443.0	462.0	481.0	500.0	519.0	538.0	557.0	576.0	595.0	614.0	633.0	652.0	671.0	690.0	709.0	728.0	747.0	766.0	785.0	804.0	823.0	842.0	861.0	880.0	899.0	918.0	937.0	956.0	5-1/2
468.0	488.0	508.0	528.0	548.0	568.0	588.0	608.0	628.0	648.0	668.0	688.0	708.0	728.0	748.0	768.0	788.0	808.0	828.0	848.0	868.0	888.0	908.0	928.0	948.0	968.0	988.0	1,008	6
493.0	514.0	535.0	556.0	577.0	598.0	619.0	640.0	661.0	682.0	703.0	724.0	745.0	766.0	787.0	808.0	829.0	850.0	871.0	892.0	913.0	934.0	955.0	976.0	997.0	1,018	1,039	1,060	6-1/2
518.0	540.0	562.0	584.0	606.0	628.0	650.0	672.0	694.0	716.0	738.0	760.0	782.0	804.0	826.0	848.0	870.0	892.0	914.0	936.0	958.0	980.0	1,002	1,024	1,046	1,068	1,090	1,112	7
543.0	566.0	589.0	612.0	635.0	658.0	681.0	704.0	727.0	750.0	773.0	796.0	819.0	842.0	865.0	888.0	911.0	934.0	957.0	980.0	1,003	1,026	1,049	1,072	1,095	1,118	1,141	1,164	7-1/2
568.0	592.0	616.0	640.0	664.0	688.0	712.0	736.0	760.0	784.0	808.0	832.0	856.0	880.0	904.0	928.0	952.0	976.0	1,000	1,024	1,048	1,072	1,096	1,120	1,144	1,168	1,192	1,216	8
593.0	618.0	643.0	668.0	693.0	718.0	743.0	768.0	793.0	818.0	843.0	868.0	893.0	918.0	943.0	968.0	993.0	1,018	1,043	1,068	1,093	1,118	1,143	1,168	1,193	1,218	1,243	1,268	8-1/2
618.0	644.0	670.0	696.0	722.0	748.0	774.0	800.0	826.0	852.0	878.0	904.0	930.0	956.0	982.0	1,008	1,034	1,060	1,086	1,112	1,138	1,164	1,190	1,216	1,242	1,268	1,294	1,320	9
643.0	670.0	697.0	724.0	751.0	778.0	805.0	832.0	859.0	886.0	913.0	940.0	967.0	994.0	1,021	1,048	1,075	1,102	1,129	1,156	1,183	1,210	1,237	1,264	1,291	1,318	1,345	1,372	9-1/2
668.0	696.0	724.0	752.0	780.0	808.0	836.0	864.0	892.0	920.0	948.0	976.0	1,004	1,032	1,060	1,088	1,116	1,144	1,172	1,200	1,228	1,256	1,284	1,312	1,340	1,368	1,396	1,424	10
693.0	722.0	751.0	780.0	809.0	838.0	867.0	896.0	925.0	954.0	983.0	1,012	1,041	1,070	1,099	1,128	1,157	1,186	1,215	1,244	1,273	1,302	1,331	1,360	1,389	1,418	1,447	1,476	10-1/2
718.0	748.0	778.0	808.0	838.0	868.0	898.0	928.0	958.0	988.0	1,018	1,048	1,078	1,108	1,138	1,168	1,198	1,228	1,258	1,288	1,318	1,348	1,378	1,408	1,438	1,468	1,498	1,528	11
743.0	774.0	805.0	836.0	867.0	898.0	929.0	960.0	991.0	1,022	1,053	1,084	1,115	1,146	1,177	1,208	1,239	1,270	1,301	1,332	1,363	1,394	1,425	1,456	1,487	1,518	1,549	1,580	11-1/2
768.0	800.0	832.0	864.0	896.0	928.0	960.0	992.0	1,024	1,056	1,088	1,120	1,152	1,184	1,216	1,248	1,280	1,312	1,344	1,376	1,408	1,440	1,472	1,504	1,536	1,568	1,600	1,632	12
793.0	826.0	859.0	892.0	925.0	958.0	991.0	1,024	1,057	1,090	1,123	1,156	1,189	1,222	1,255	1,288	1,321	1,354	1,387	1,420	1,453	1,486	1,519	1,552	1,585	1,618	1,651	1,684	12-1/2
818.0	852.0	886.0	920.0	954.0	988.0	1,022	1,056	1,090	1,124	1,158	1,192	1,226	1,260	1,294	1,328	1,362	1,396	1,430	1,464	1,498	1,532	1,566	1,600	1,634	1,668	1,702	1,736	13
843.0	878.0	913.0	948.0	983.0	1,018	1,053	1,088	1,123	1,158	1,193	1,228	1,263	1,298	1,333	1,368	1,403	1,438	1,473	1,508	1,543	1,578	1,613	1,648	1,683	1,718	1,753	1,788	13-1/2
868.0	904.0	940.0	976.0	1,012	1,048	1,084	1,120	1,156	1,192	1,228	1,264	1,300	1,336	1,372	1,408	1,444	1,480	1,516	1,552	1,588	1,624	1,660	1,696	1,732	1,768	1,804	1,840	14
893.0	930.0	967.0	1,004	1,041	1,078	1,115	1,152	1,189	1,226	1,263	1,300	1,337	1,374	1,411	1,448	1,485	1,522	1,559	1,596	1,633	1,670	1,707	1,744	1,781	1,818	1,855	1,892	14-1/2
918.0	956.0	994.0	1,032	1,070	1,108	1,146	1,184	1,222	1,260	1,298	1,336	1,374	1,412	1,450	1,488	1,526	1,564	1,602	1,640	1,678	1,716	1,754	1,792	1,830	1,868	1,906	1,944	15
968.0	1,008	1,048	1,088	1,128	1,168	1,208	1,248	1,288	1,328	1,368	1,408	1,448	1,488	1,528	1,568	1,608	1,648	1,688	1,728	1,768	1,808	1,848	1,888	1,928	1,968	2,008	2,048	16
1,018	1,060	1,102	1,144	1,186	1,228	1,270	1,312	1,354	1,396	1,438	1,480	1,522	1,564	1,606	1,648	1,690	1,732	1,774	1,816	1,858	1,900	1,942	1,984	2,026	2,068	2,110	2,152	17
1,068	1,112	1,156	1,200	1,244	1,288	1,332	1,376	1,420	1,464	1,508	1,552	1,596	1,640	1,684	1,728	1,772	1,816	1,860	1,904	1,948	1,992	2,036	2,080	2,124	2,168	2,212	2,256	18
1,118	1,164	1,210	1,256	1,302	1,348	1,394	1,440	1,486	1,532	1,578	1,624	1,670	1,716	1,762	1,808	1,854	1,900	1,946	1,992	2,038	2,084	2,130	2,176	2,222	2,268	2,314	2,360	19
1,168	1,216	1,264	1,312	1,360	1,408	1,456	1,504	1,552	1,600	1,648	1,696	1,744	1,792	1,840	1,888	1,936	1,984	2,032	2,080	2,128	2,176	2,224	2,272	2,320	2,368	2,416	2,464	20

4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2"



INCHES	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
21	1,218	1,268	1,318	1,368	1,418	1,468	1,518	1,568	1,618	1,668	1,718	1,768	1,818	1,868	1,918	1,968	2,018	2,068	2,118	2,168	2,218	2,268	2,318	2,368	2,418	2,468	2,518	2,568	
22		1,320	1,372	1,424	1,476	1,528	1,580	1,632	1,684	1,736	1,788	1,840	1,892	1,944	1,996	2,048	2,100	2,152	2,204	2,256	2,308	2,360	2,412	2,464	2,516	2,568	2,620	2,672	
23			1,426	1,480	1,534	1,588	1,642	1,696	1,750	1,804	1,858	1,912	1,966	2,020	2,074	2,128	2,182	2,236	2,290	2,344	2,398	2,452	2,506	2,560	2,614	2,668	2,722	2,776	
24				1,536	1,592	1,648	1,704	1,760	1,816	1,872	1,928	1,984	2,040	2,096	2,152	2,208	2,264	2,320	2,376	2,432	2,488	2,544	2,600	2,656	2,712	2,768	2,824	2,880	
25					1,650	1,708	1,766	1,824	1,882	1,940	1,998	2,056	2,114	2,172	2,230	2,288	2,346	2,404	2,462	2,520	2,578	2,636	2,694	2,752	2,810	2,868	2,926	2,984	
26						1,768	1,828	1,888	1,948	2,008	2,068	2,128	2,188	2,248	2,308	2,368	2,428	2,488	2,548	2,608	2,668	2,728	2,788	2,848	2,908	2,968	3,028	3,088	
27							1,890	1,952	2,014	2,076	2,138	2,200	2,262	2,324	2,386	2,448	2,510	2,572	2,634	2,696	2,758	2,820	2,882	2,944	3,006	3,068	3,130	3,192	
28								2,016	2,080	2,144	2,208	2,272	2,336	2,400	2,464	2,528	2,592	2,656	2,720	2,784	2,848	2,912	2,976	3,040	3,104	3,168	3,232	3,296	
29									2,146	2,212	2,278	2,344	2,410	2,476	2,542	2,608	2,674	2,740	2,806	2,872	2,938	3,004	3,070	3,136	3,202	3,268	3,334	3,400	
30										2,280	2,348	2,416	2,484	2,552	2,620	2,688	2,756	2,824	2,892	2,960	3,028	3,096	3,164	3,232	3,300	3,368	3,436	3,504	
31											2,418	2,488	2,558	2,628	2,698	2,768	2,838	2,908	2,978	3,048	3,118	3,188	3,258	3,328	3,398	3,468	3,538	3,608	
32												2,560	2,632	2,704	2,776	2,848	2,920	2,992	3,064	3,136	3,208	3,280	3,352	3,424	3,496	3,568	3,640	3,712	
33													2,706	2,780	2,854	2,928	3,002	3,076	3,150	3,224	3,298	3,372	3,446	3,520	3,594	3,668	3,742	3,816	
34														2,856	2,932	3,008	3,084	3,160	3,236	3,312	3,388	3,464	3,540	3,616	3,692	3,768	3,844	3,920	
35															3,010	3,088	3,166	3,244	3,322	3,400	3,478	3,556	3,634	3,712	3,790	3,868	3,946	4,024	
36																3,168	3,248	3,328	3,408	3,488	3,568	3,648	3,728	3,808	3,888	3,968	4,048	4,128	
37																	3,330	3,412	3,494	3,576	3,658	3,740	3,822	3,904	3,986	4,068	4,150	4,232	
38																		3,496	3,580	3,664	3,748	3,832	3,916	4,000	4,084	4,168	4,252	4,336	
39																			3,666	3,752	3,838	3,924	4,010	4,096	4,182	4,268	4,354	4,440	
40																				3,840	3,928	4,016	4,104	4,192	4,280	4,368	4,456	4,544	
41																					4,018	4,108	4,198	4,288	4,378	4,468	4,558	4,648	
42																						4,200	4,292	4,384	4,476	4,568	4,660	4,752	
43																							4,386	4,480	4,574	4,668	4,762	4,856	
44																								4,576	4,672	4,768	4,864	4,960	
45																										4,770	4,868	4,966	5,064
46																											4,968	5,068	5,168
47																												5,170	5,272
48																													5,376

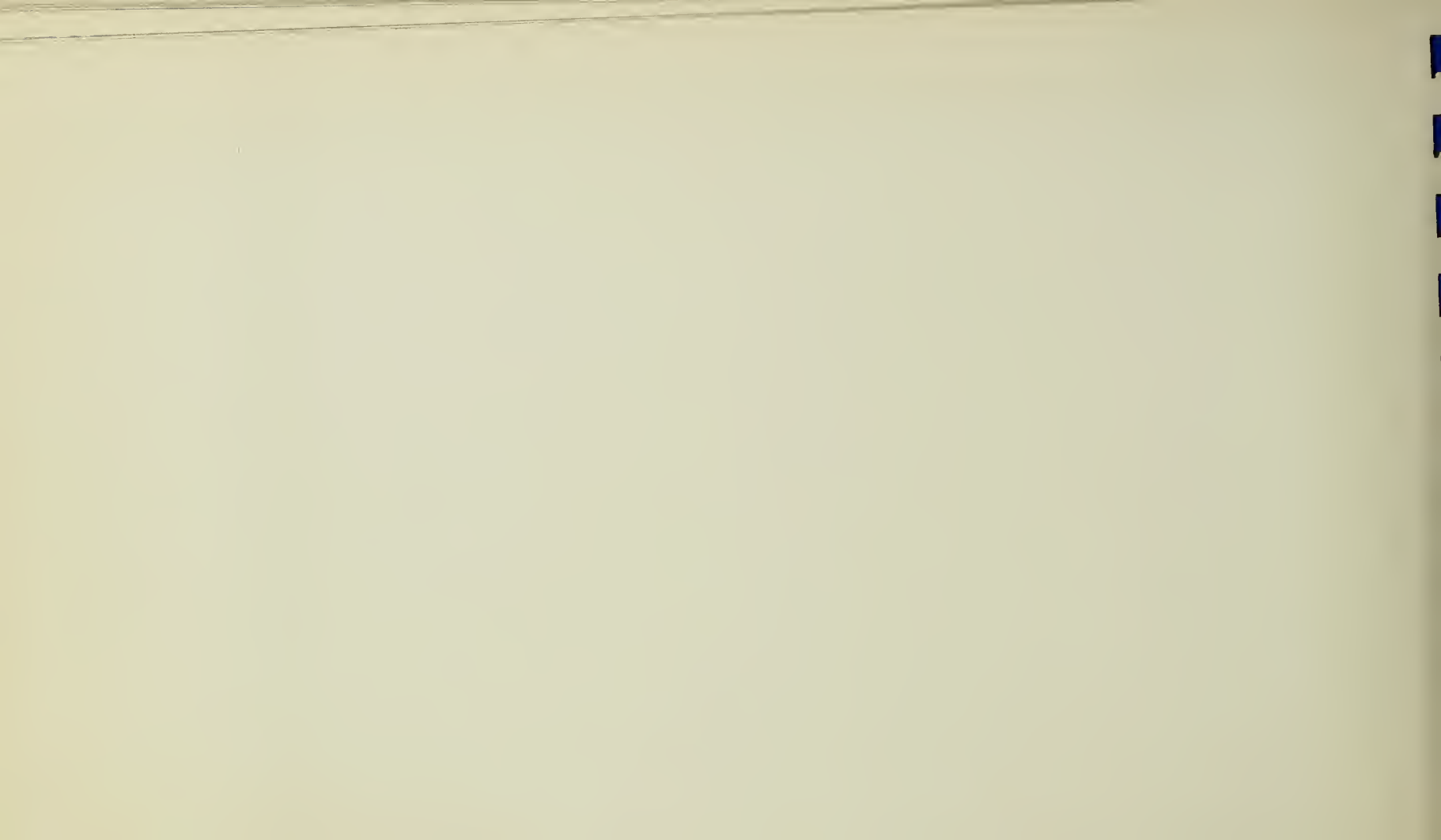
$4\frac{1}{2}$     5"     $5\frac{1}{2}$     6"     $6\frac{1}{2}$     7"     $7\frac{1}{2}$     8"     $8\frac{1}{2}$

INCHES	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	
4-1/2	121.5	130.5	139.5	148.5	157.5	166.5	175.5	184.5	193.5	202.5	211.5	220.5	229.5	238.5	247.5	256.5	265.5	274.5	283.5	292.5	301.5	310.5	318.5	328.5	336.5	344.5	352.5	360.5
5		140.0	149.5	159.0	168.5	178.0	187.5	197.0	206.5	216.0	225.5	235.0	244.5	254.0	263.5	273.0	282.5	292.0	301.5	311.0	320.5	330.0	339.5	349.0	358.5	368.0	377.5	387.0
5-1/2			159.5	169.5	179.5	189.5	199.5	209.5	219.5	229.5	239.5	249.5	259.5	269.5	279.5	289.5	299.5	309.5	319.5	329.5	339.5	349.5	359.5	369.5	379.5	389.5	399.5	409.5
6				180.0	190.5	201.0	211.5	222.0	232.5	243.0	253.5	264.0	274.5	285.0	295.5	306.0	316.5	327.0	337.5	348.0	358.5	369.0	379.5	390.0	401.0	411.0	422.0	432.0
6-1/2					201.5	212.5	223.5	234.5	245.5	256.5	267.5	278.5	289.5	300.5	311.5	322.5	333.5	344.5	355.5	366.5	377.5	388.5	399.5	410.5	421.5	432.5	443.5	454.5
7						224.0	235.5	247.0	258.5	270.0	281.5	293.0	304.5	316.0	327.5	339.0	350.5	362.0	373.5	385.0	396.5	408.0	419.5	431.0	442.5	454.0	465.5	477.0
7-1/2							247.5	259.5	271.5	283.5	295.5	307.5	319.5	331.5	343.5	355.5	367.5	379.5	391.5	403.5	415.5	427.5	439.5	451.5	463.5	475.5	487.5	499.5
8								272.0	284.5	297.0	309.5	322.0	334.5	347.0	359.5	372.0	384.5	397.0	409.5	422.0	434.5	447.0	459.5	472.0	484.5	497.0	509.5	522.0
8-1/2									297.5	310.5	323.5	336.5	349.5	362.5	375.5	388.5	401.5	414.5	427.5	440.5	453.5	466.5	479.5	492.5	505.5	518.5	531.5	544.5
9										324.0	337.5	351.0	364.5	378.0	391.5	405.0	418.5	432.0	445.5	459.0	472.5	486.0	499.5	513.0	526.5	540.0	553.5	567.0
9-1/2											351.5	365.5	379.5	393.5	407.5	421.5	435.5	449.5	463.5	477.5	491.5	505.5	519.5	533.5	547.5	561.5	575.5	589.5
10												380.0	394.5	409.0	423.5	438.0	452.5	467.0	481.5	496.0	510.5	525.0	539.5	554.0	568.5	583.0	597.5	612.0
10-1/2													409.5	424.5	439.5	454.5	469.5	484.5	499.5	514.5	529.5	544.5	559.5	574.5	589.5	604.5	619.5	634.5
11														440.0	455.5	471.0	486.5	502.0	517.5	533.0	548.5	564.0	579.5	595.0	610.5	626.0	641.5	657.0
11-1/2															471.5	487.5	503.5	519.5	535.5	551.5	567.5	583.5	599.5	615.5	631.5	647.5	663.5	679.5
12																504.0	520.5	537.0	553.5	570.0	586.5	603.0	619.5	636.0	652.5	669.0	685.5	702.0
12-1/2																	537.5	554.5	571.5	588.5	605.5	622.5	639.5	656.5	673.5	690.5	707.5	724.5
13																		572.0	589.5	607.0	624.5	642.0	659.5	677.0	694.5	712.0	729.5	747.0
13-1/2																			607.5	625.5	643.5	661.5	679.5	697.5	715.5	733.5	751.5	769.5
14																				644.0	662.5	681.0	699.5	718.0	736.5	755.0	773.5	792.0
14-1/2																					681.5	700.5	719.5	738.5	757.5	776.5	795.5	814.5
15																						720.0	739.0	758.0	777.0	796.0	815.0	834.0
16																							759.0	778.0	797.0	816.0	835.0	854.0
17																								798.0	817.0	836.0	855.0	874.0
18																									837.0	856.0	875.0	894.0
19																										876.0	895.0	914.0
20																											915.0	934.0



21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48 → INCHES	
418.5	436.5	454.5	472.5	490.5	508.5	526.5	544.5	562.5	580.5	598.5	616.5	634.5	652.5	670.5	688.5	706.5	724.5	742.5	760.5	778.5	796.5	814.5	832.5	850.5	868.5	886.5	904.5	4-1/2
444.0	463.0	482.0	501.0	520.0	539.0	558.0	577.0	596.0	615.0	634.0	653.0	672.0	691.0	710.0	729.0	748.0	767.0	786.0	805.0	824.0	843.0	862.0	881.0	900.0	919.0	938.0	957.0	5
469.5	489.5	509.5	529.5	549.5	569.5	589.5	609.5	629.5	649.5	669.5	689.5	709.5	729.5	749.5	769.5	789.5	809.5	829.5	849.5	869.5	889.5	909.5	929.5	949.5	969.5	989.5	1,010	5-1/2
495.0	516.0	537.0	558.0	579.0	600.0	621.0	642.0	663.0	684.0	705.0	726.0	747.0	768.0	789.0	810.0	831.0	852.0	873.0	894.0	915.0	936.0	957.0	978.0	999.0	1,020	1,041	1,062	6
520.5	542.5	564.5	586.5	608.5	630.5	652.5	674.5	696.5	718.5	740.5	762.5	784.5	806.5	828.5	850.5	872.5	894.5	916.5	938.5	960.5	982.5	1,005	1,027	1,049	1,071	1,093	1,115	6-1/2
546.0	569.0	592.0	615.0	638.0	661.0	684.0	707.0	730.0	753.0	776.0	799.0	822.0	845.0	868.0	891.0	914.0	937.0	960.0	983.0	1,006	1,029	1,052	1,075	1,098	1,121	1,144	1,167	7
571.5	595.5	619.5	643.5	667.5	691.5	715.5	739.5	763.5	787.5	811.5	835.5	859.5	883.5	907.5	931.5	955.5	979.5	1,004	1,028	1,052	1,076	1,100	1,124	1,148	1,172	1,196	1,220	7-1/2
597.0	622.0	647.0	672.0	697.0	722.0	747.0	772.0	797.0	822.0	847.0	872.0	897.0	922.0	947.0	972.0	997.0	1,022	1,047	1,072	1,097	1,122	1,147	1,172	1,197	1,222	1,247	1,272	8
622.5	648.5	674.5	700.5	726.5	752.5	778.5	804.5	830.5	856.5	882.5	908.5	934.5	960.5	986.5	1,013	1,039	1,065	1,091	1,117	1,143	1,169	1,195	1,221	1,247	1,273	1,299	1,325	8-1/2
648.0	675.0	702.0	729.0	756.0	783.0	810.0	837.0	864.0	891.0	918.0	945.0	972.0	999.0	1,026	1,053	1,080	1,107	1,134	1,161	1,188	1,215	1,242	1,269	1,296	1,323	1,350	1,377	9
673.5	701.5	729.5	757.5	785.5	813.5	841.5	869.5	897.5	925.5	953.5	981.5	1,010	1,038	1,066	1,094	1,122	1,150	1,178	1,206	1,234	1,262	1,290	1,318	1,346	1,374	1,402	1,430	9-1/2
699.0	728.0	757.0	786.0	815.0	844.0	873.0	902.0	931.0	960.0	989.0	1,018	1,047	1,076	1,105	1,134	1,163	1,192	1,221	1,250	1,279	1,308	1,337	1,366	1,395	1,424	1,453	1,482	10
724.5	754.5	784.5	814.5	844.5	874.5	904.5	934.5	964.5	994.5	1,025	1,055	1,085	1,115	1,145	1,175	1,205	1,235	1,265	1,295	1,325	1,355	1,385	1,415	1,445	1,475	1,505	1,535	10-1/2
750.0	781.0	812.0	843.0	874.0	905.0	936.0	967.0	998.0	1,029	1,060	1,091	1,122	1,153	1,184	1,215	1,246	1,277	1,308	1,339	1,370	1,401	1,432	1,463	1,494	1,525	1,556	1,587	11
775.5	807.5	839.5	871.5	903.5	935.5	967.5	999.5	1,032	1,064	1,096	1,128	1,160	1,192	1,224	1,256	1,288	1,320	1,352	1,384	1,416	1,448	1,480	1,512	1,544	1,576	1,608	1,640	11-1/2
801.0	834.0	867.0	900.0	933.0	966.0	999.0	1,032	1,065	1,098	1,131	1,164	1,197	1,230	1,263	1,296	1,329	1,362	1,395	1,428	1,461	1,494	1,527	1,560	1,593	1,626	1,659	1,692	12
826.5	860.5	894.5	928.5	962.5	996.5	1,031	1,065	1,099	1,133	1,167	1,201	1,235	1,269	1,303	1,337	1,371	1,405	1,439	1,473	1,507	1,541	1,575	1,609	1,643	1,677	1,711	1,745	12-1/2
852.0	887.0	922.0	957.0	992.0	1,027	1,062	1,097	1,132	1,167	1,202	1,237	1,272	1,307	1,342	1,377	1,412	1,447	1,482	1,517	1,552	1,587	1,622	1,657	1,692	1,727	1,762	1,797	13
877.5	913.5	949.5	985.5	1,022	1,058	1,094	1,130	1,166	1,202	1,238	1,274	1,310	1,346	1,382	1,418	1,454	1,490	1,526	1,562	1,598	1,634	1,670	1,706	1,742	1,778	1,814	1,850	13-1/2
903.0	940.0	977.0	1,014	1,051	1,088	1,125	1,162	1,199	1,236	1,273	1,310	1,347	1,384	1,421	1,458	1,495	1,532	1,569	1,606	1,643	1,680	1,717	1,754	1,791	1,828	1,865	1,902	14
928.5	966.5	1,005	1,043	1,081	1,119	1,157	1,195	1,233	1,271	1,309	1,347	1,385	1,423	1,461	1,499	1,537	1,575	1,613	1,651	1,689	1,727	1,765	1,803	1,841	1,879	1,917	1,955	14-1/2
954.0	993.0	1,032	1,071	1,110	1,149	1,188	1,227	1,266	1,305	1,344	1,383	1,422	1,461	1,500	1,539	1,578	1,617	1,656	1,695	1,734	1,773	1,812	1,851	1,890	1,929	1,968	2,007	15
1,005	1,046	1,087	1,128	1,169	1,210	1,251	1,292	1,333	1,374	1,415	1,456	1,497	1,538	1,579	1,620	1,661	1,702	1,743	1,784	1,825	1,866	1,907	1,948	1,989	2,030	2,071	2,112	16
1,056	1,099	1,142	1,185	1,228	1,271	1,314	1,357	1,400	1,443	1,486	1,529	1,572	1,615	1,658	1,701	1,744	1,787	1,830	1,873	1,916	1,959	2,002	2,045	2,088	2,131	2,174	2,217	17
1,107	1,152	1,197	1,242	1,287	1,332	1,377	1,422	1,467	1,512	1,557	1,602	1,647	1,692	1,737	1,782	1,827	1,872	1,917	1,962	2,007	2,052	2,097	2,142	2,187	2,232	2,277	2,322	18
1,158	1,205	1,252	1,299	1,346	1,393	1,440	1,487	1,534	1,581	1,628	1,675	1,722	1,769	1,816	1,863	1,910	1,957	2,004	2,051	2,098	2,145	2,192	2,239	2,286	2,333	2,380	2,427	19
1,209	1,258	1,307	1,356	1,405	1,454	1,503	1,552	1,601	1,650	1,699	1,748	1,797	1,846	1,895	1,944	1,993	2,042	2,091	2,140	2,189	2,238	2,287	2,336	2,385	2,434	2,483	2,532	20

$4\frac{1}{2}$     5     $5\frac{1}{2}$     6     $6\frac{1}{2}$     7     $7\frac{1}{2}$     8     $8\frac{1}{2}$



INCHES	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
21	1,260	1,311	1,362	1,413	1,464	1,515	1,566	1,617	1,668	1,719	1,770	1,821	1,872	1,923	1,974	2,025	2,076	2,127	2,178	2,229	2,280	2,331	2,382	2,433	2,484	2,535	2,586	2,637	
22		1,364	1,417	1,470	1,523	1,576	1,629	1,682	1,735	1,788	1,841	1,894	1,947	2,000	2,053	2,106	2,159	2,212	2,265	2,318	2,371	2,424	2,477	2,530	2,583	2,636	2,689	2,742	
23			1,472	1,527	1,582	1,637	1,692	1,747	1,802	1,857	1,912	1,967	2,022	2,077	2,132	2,187	2,242	2,297	2,352	2,407	2,462	2,517	2,572	2,627	2,682	2,737	2,792	2,847	
24				1,584	1,641	1,698	1,755	1,812	1,869	1,926	1,983	2,040	2,097	2,154	2,211	2,268	2,325	2,382	2,439	2,496	2,553	2,610	2,667	2,724	2,781	2,838	2,895	2,952	
25					1,700	1,759	1,818	1,877	1,936	1,995	2,054	2,113	2,172	2,231	2,290	2,349	2,408	2,467	2,526	2,585	2,644	2,703	2,762	2,821	2,880	2,939	2,998	3,057	
26						1,820	1,881	1,942	2,003	2,064	2,125	2,186	2,247	2,308	2,369	2,430	2,491	2,552	2,613	2,674	2,735	2,796	2,857	2,918	2,979	3,040	3,101	3,162	
27							1,944	2,007	2,070	2,133	2,196	2,259	2,322	2,385	2,448	2,511	2,574	2,637	2,700	2,763	2,826	2,889	2,952	3,015	3,078	3,141	3,204	3,267	
28								2,072	2,137	2,202	2,267	2,332	2,397	2,462	2,527	2,592	2,657	2,722	2,787	2,852	2,917	2,982	3,047	3,112	3,177	3,242	3,307	3,372	
29									2,204	2,271	2,338	2,405	2,472	2,539	2,606	2,673	2,740	2,807	2,874	2,941	3,008	3,075	3,142	3,209	3,276	3,343	3,410	3,477	
30										2,340	2,409	2,478	2,547	2,616	2,685	2,754	2,823	2,892	2,961	3,030	3,099	3,168	3,237	3,306	3,375	3,444	3,513	3,582	
31											2,480	2,551	2,622	2,693	2,764	2,835	2,906	2,977	3,048	3,119	3,190	3,261	3,332	3,403	3,474	3,545	3,616	3,687	
32												2,624	2,697	2,770	2,843	2,916	2,989	3,062	3,135	3,208	3,281	3,354	3,427	3,500	3,573	3,646	3,719	3,792	
33													2,772	2,847	2,922	2,997	3,072	3,147	3,222	3,297	3,372	3,447	3,522	3,597	3,672	3,747	3,822	3,897	
34														2,924	3,001	3,078	3,155	3,232	3,309	3,386	3,463	3,540	3,617	3,694	3,771	3,848	3,925	4,002	
35															3,080	3,159	3,238	3,317	3,396	3,475	3,554	3,633	3,712	3,791	3,870	3,949	4,028	4,107	
36																3,240	3,321	3,402	3,483	3,564	3,645	3,726	3,807	3,888	3,969	4,050	4,131	4,212	
37																	3,404	3,487	3,570	3,653	3,736	3,819	3,902	3,985	4,068	4,151	4,234	4,317	
38																		3,572	3,657	3,742	3,827	3,912	3,997	4,082	4,167	4,252	4,337	4,422	
39																			3,744	3,831	3,918	4,005	4,092	4,179	4,266	4,353	4,440	4,527	
40																				3,920	4,009	4,098	4,187	4,276	4,365	4,454	4,543	4,632	
41																					4,100	4,191	4,282	4,373	4,464	4,555	4,646	4,737	
42																						4,284	4,377	4,470	4,563	4,656	4,749	4,842	
43																							4,472	4,567	4,662	4,757	4,852	4,947	
44																								4,664	4,761	4,858	4,955	5,052	
45																										4,860	4,959	5,058	5,157
46																											5,060	5,161	5,262
47																												5,264	5,367
48																													5,472

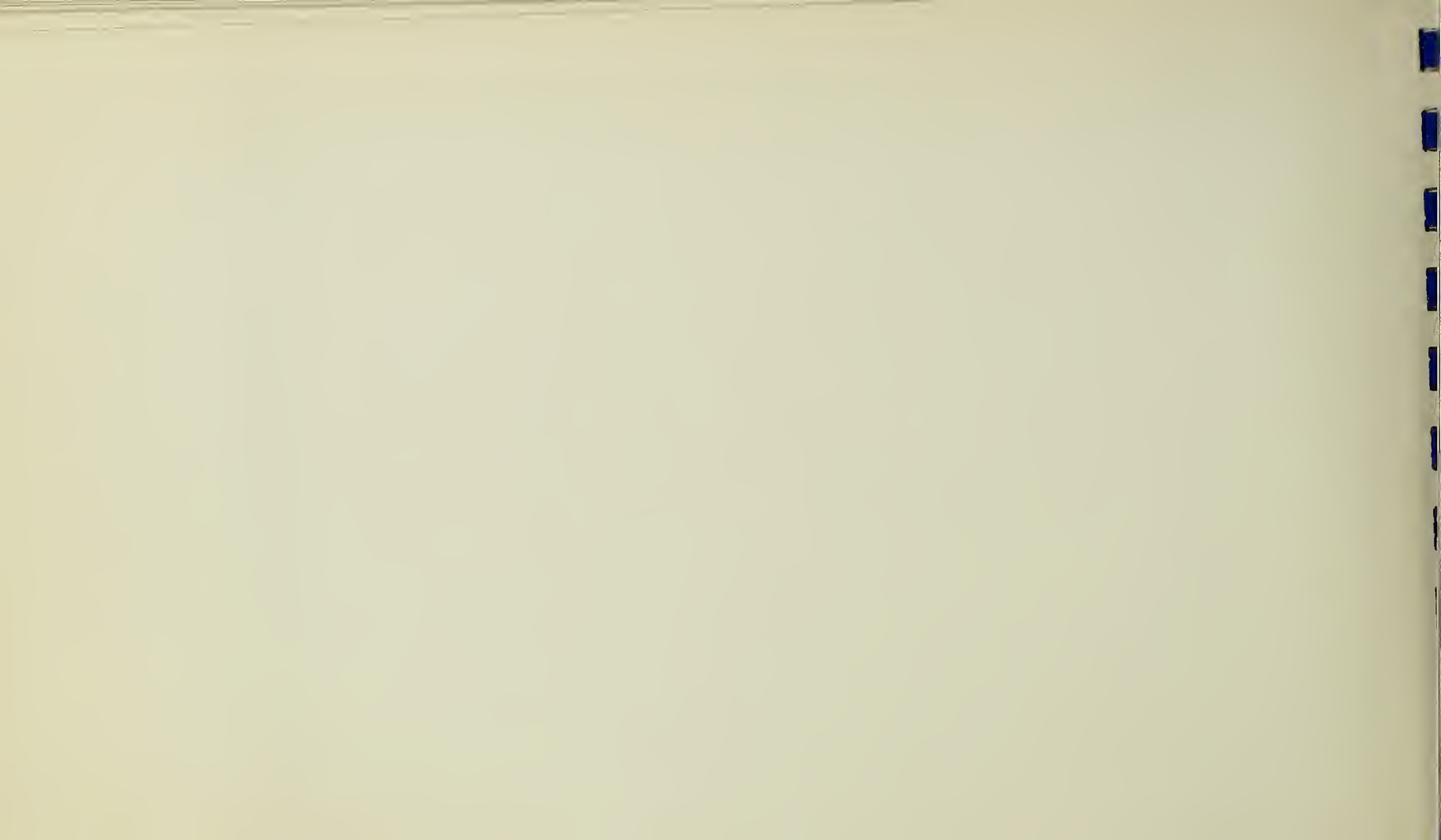
5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2"

INCHES	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21
5	150.0	160.0	170.0	180.0	190.0	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0	300.0	310.0	320.0	330.0	340.0	350.0	370.0	390.0	410.0	430.0	450.0	470.0
5-1/2		170.5	181.0	191.5	202.0	212.5	223.0	233.5	244.0	254.5	265.0	275.5	286.0	296.5	307.0	317.5	328.0	338.5	349.0	359.5	370.0	391.0	412.0	433.0	454.0	475.0	496.0
6			192.0	203.0	214.0	225.0	236.0	247.0	258.0	269.0	280.0	291.0	302.0	313.0	324.0	335.0	346.0	357.0	368.0	379.0	390.0	412.0	434.0	456.0	478.0	500.0	522.0
6-1/2				214.5	226.0	237.5	249.0	260.5	272.0	283.5	295.0	306.5	318.0	329.5	341.0	352.5	364.0	375.5	387.0	398.5	410.0	433.0	456.0	479.0	502.0	525.0	548.0
7					238.0	250.0	262.0	274.0	286.0	298.0	310.0	322.0	334.0	346.0	358.0	370.0	382.0	394.0	406.0	418.0	430.0	454.0	478.0	502.0	526.0	550.0	574.0
7-1/2						262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0	387.5	400.0	412.5	425.0	437.5	450.0	475.0	500.0	525.0	550.0	575.0	600.0
8							288.0	301.0	314.0	327.0	340.0	353.0	366.0	379.0	392.0	405.0	418.0	431.0	444.0	457.0	470.0	496.0	522.0	548.0	574.0	600.0	626.0
8-1/2								314.5	328.0	341.5	355.0	368.5	382.0	395.5	409.0	422.5	436.0	449.5	463.0	476.5	490.0	517.0	544.0	571.0	598.0	625.0	652.0
9									342.0	356.0	370.0	384.0	398.0	412.0	426.0	440.0	454.0	468.0	482.0	496.0	510.0	538.0	566.0	594.0	622.0	650.0	678.0
9-1/2										370.5	385.0	399.5	414.0	428.5	443.0	457.5	472.0	486.5	501.0	515.5	530.0	559.0	588.0	617.0	646.0	675.0	704.0
10											400.0	415.0	430.0	445.0	460.0	475.0	490.0	505.0	520.0	535.0	550.0	580.0	610.0	640.0	670.0	700.0	730.0
10-1/2												430.5	446.0	461.5	477.0	492.5	508.0	523.5	539.0	554.5	570.0	601.0	632.0	663.0	694.0	725.0	756.0
11													462.0	478.0	494.0	510.0	526.0	542.0	558.0	574.0	590.0	622.0	654.0	686.0	718.0	750.0	782.0
11-1/2														494.5	511.0	527.5	544.0	560.5	577.0	593.5	610.0	643.0	676.0	709.0	742.0	775.0	808.0
12															528.0	545.0	562.0	579.0	596.0	613.0	630.0	664.0	698.0	732.0	766.0	800.0	834.0
12-1/2																562.5	580.0	597.5	615.0	632.5	650.0	685.0	720.0	755.0	790.0	825.0	860.0
13																	598.0	616.0	634.0	652.0	670.0	706.0	742.0	778.0	814.0	850.0	886.0
13-1/2																		634.5	653.0	671.5	690.0	727.0	764.0	801.0	838.0	875.0	912.0
14																			672.0	691.0	710.0	748.0	786.0	824.0	862.0	900.0	938.0
14-1/2																				710.5	730.0	769.0	808.0	847.0	886.0	925.0	964.0
15																					750.0	790.0	830.0	870.0	910.0	950.0	990.0
16																						832.0	874.0	915.0	958.0	1,000	1,042
17																							918.0	962.0	1,006	1,050	1,094
18																								1,008	1,054	1,100	1,146
19																									1,102	1,150	1,198
20																										1,200	1,250
21																											1,302



22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
490.0	510.0	530.0	550.0	570.0	590.0	610.0	630.0	650.0	670.0	690.0	710.0	730.0	750.0	770.0	790.0	810.0	830.0	850.0	870.0	890.0	910.0	930.0	950.0	970.0	990.0	1,010	5
517.0	538.0	559.0	580.0	601.0	622.0	643.0	664.0	685.0	706.0	727.0	748.0	769.0	790.0	811.0	832.0	853.0	874.0	895.0	916.0	937.0	958.0	979.0	1,000	1,021	1,042	1,063	5-1/2
544.0	566.0	588.0	610.0	632.0	654.0	676.0	698.0	720.0	742.0	764.0	786.0	808.0	830.0	852.0	874.0	896.0	918.0	940.0	962.0	984.0	1,006	1,028	1,050	1,072	1,094	1,116	6
571.0	594.0	617.0	640.0	663.0	686.0	709.0	732.0	755.0	778.0	801.0	824.0	847.0	870.0	893.0	916.0	939.0	962.0	985.0	1,008	1,031	1,054	1,077	1,100	1,123	1,146	1,169	6-1/2
598.0	622.0	646.0	670.0	694.0	718.0	742.0	766.0	790.0	814.0	838.0	862.0	886.0	910.0	934.0	958.0	982.0	1,006	1,030	1,054	1,078	1,102	1,126	1,150	1,174	1,198	1,222	7
625.0	650.0	675.0	700.0	725.0	750.0	775.0	800.0	825.0	850.0	875.0	900.0	925.0	950.0	975.0	1,000	1,025	1,050	1,075	1,100	1,125	1,150	1,175	1,200	1,225	1,250	1,275	7-1/2
652.0	678.0	704.0	730.0	756.0	782.0	808.0	834.0	860.0	886.0	912.0	938.0	964.0	990.0	1,016	1,042	1,068	1,094	1,120	1,146	1,172	1,198	1,224	1,250	1,276	1,302	1,328	8
679.0	706.0	733.0	760.0	787.0	814.0	841.0	868.0	895.0	922.0	949.0	976.0	1,003	1,030	1,057	1,084	1,111	1,138	1,165	1,192	1,219	1,246	1,273	1,300	1,327	1,354	1,381	8-1/2
706.0	734.0	762.0	790.0	818.0	846.0	874.0	902.0	930.0	958.0	986.0	1,014	1,042	1,070	1,098	1,126	1,154	1,182	1,210	1,238	1,266	1,294	1,322	1,350	1,378	1,406	1,434	9
733.0	762.0	791.0	820.0	849.0	878.0	907.0	936.0	965.0	994.0	1,023	1,052	1,081	1,110	1,139	1,168	1,197	1,226	1,255	1,284	1,313	1,342	1,371	1,400	1,429	1,458	1,487	9-1/2
760.0	790.0	820.0	850.0	880.0	910.0	940.0	970.0	1,000	1,030	1,060	1,090	1,120	1,150	1,180	1,210	1,240	1,270	1,300	1,330	1,360	1,390	1,420	1,450	1,480	1,510	1,540	10
787.0	818.0	849.0	880.0	911.0	942.0	973.0	1,004	1,035	1,066	1,097	1,128	1,159	1,190	1,221	1,252	1,283	1,314	1,345	1,376	1,407	1,438	1,469	1,500	1,531	1,562	1,593	10-1/2
814.0	846.0	878.0	910.0	942.0	974.0	1,006	1,038	1,070	1,102	1,134	1,166	1,198	1,230	1,262	1,294	1,326	1,358	1,390	1,422	1,454	1,486	1,518	1,550	1,582	1,614	1,646	11
841.0	874.0	907.0	940.0	973.0	1,006	1,039	1,072	1,105	1,138	1,171	1,204	1,237	1,270	1,303	1,336	1,369	1,402	1,435	1,468	1,501	1,534	1,567	1,600	1,633	1,666	1,699	11-1/2
868.0	902.0	936.0	970.0	1,004	1,038	1,072	1,106	1,140	1,174	1,208	1,242	1,276	1,310	1,344	1,378	1,412	1,446	1,480	1,514	1,548	1,582	1,616	1,650	1,684	1,718	1,752	12
895.0	930.0	965.0	1,000	1,035	1,070	1,105	1,140	1,175	1,210	1,245	1,280	1,315	1,350	1,385	1,420	1,455	1,490	1,525	1,560	1,595	1,630	1,665	1,700	1,735	1,770	1,805	12-1/2
922.0	958.0	994.0	1,030	1,066	1,102	1,138	1,174	1,210	1,246	1,282	1,318	1,354	1,390	1,426	1,462	1,498	1,534	1,570	1,606	1,642	1,678	1,714	1,750	1,786	1,822	1,858	13
949.0	986.0	1,023	1,060	1,097	1,134	1,171	1,208	1,245	1,282	1,319	1,356	1,393	1,430	1,467	1,504	1,541	1,578	1,615	1,652	1,689	1,726	1,763	1,800	1,837	1,874	1,911	13-1/2
976.0	1,014	1,052	1,090	1,128	1,166	1,204	1,242	1,280	1,318	1,356	1,394	1,432	1,470	1,508	1,546	1,584	1,622	1,660	1,698	1,736	1,774	1,812	1,850	1,888	1,926	1,964	14
1,003	1,042	1,081	1,120	1,159	1,198	1,237	1,276	1,315	1,354	1,393	1,432	1,471	1,510	1,549	1,588	1,627	1,666	1,705	1,744	1,783	1,822	1,861	1,900	1,939	1,978	2,017	14-1/2
1,030	1,070	1,110	1,150	1,190	1,230	1,270	1,310	1,350	1,390	1,430	1,470	1,510	1,550	1,590	1,630	1,670	1,710	1,750	1,790	1,830	1,870	1,910	1,950	1,990	2,030	2,070	15
1,058	1,126	1,168	1,210	1,252	1,294	1,336	1,378	1,420	1,462	1,504	1,546	1,588	1,630	1,672	1,714	1,756	1,798	1,840	1,882	1,924	1,966	2,008	2,050	2,092	2,134	2,176	16
1,138	1,182	1,226	1,270	1,314	1,358	1,402	1,446	1,490	1,534	1,578	1,622	1,666	1,710	1,754	1,798	1,842	1,886	1,930	1,974	2,018	2,062	2,106	2,150	2,194	2,238	2,282	17
1,192	1,238	1,284	1,330	1,376	1,422	1,468	1,514	1,560	1,606	1,652	1,698	1,744	1,790	1,836	1,882	1,928	1,974	2,020	2,066	2,112	2,158	2,204	2,250	2,296	2,342	2,388	18
1,246	1,294	1,342	1,390	1,438	1,486	1,534	1,582	1,630	1,678	1,726	1,774	1,822	1,870	1,918	1,966	2,014	2,062	2,110	2,158	2,206	2,254	2,302	2,350	2,398	2,446	2,494	19
1,300	1,350	1,400	1,450	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	20
1,354	1,406	1,458	1,510	1,562	1,614	1,666	1,718	1,770	1,822	1,874	1,926	1,978	2,030	2,082	2,134	2,186	2,238	2,290	2,342	2,394	2,446	2,498	2,550	2,602	2,654	2,706	21

5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2"



INCHES →	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
22	1,408	1,462	1,516	1,570	1,624	1,678	1,732	1,786	1,840	1,894	1,948	2,002	2,056	2,110	2,164	2,218	2,272	2,326	2,380	2,434	2,488	2,542	2,596	2,650	2,704	2,758	2,812
23		1,518	1,574	1,630	1,686	1,742	1,798	1,854	1,910	1,966	2,022	2,078	2,134	2,190	2,246	2,302	2,358	2,414	2,470	2,526	2,582	2,638	2,694	2,750	2,806	2,862	2,918
24			1,632	1,690	1,748	1,806	1,864	1,922	1,980	2,038	2,096	2,154	2,212	2,270	2,328	2,386	2,444	2,502	2,560	2,618	2,676	2,734	2,792	2,850	2,908	2,966	3,024
25				1,750	1,810	1,870	1,930	1,990	2,050	2,110	2,170	2,230	2,290	2,350	2,410	2,470	2,530	2,590	2,650	2,710	2,770	2,830	2,890	2,950	3,010	3,070	3,130
26					1,872	1,934	1,996	2,058	2,120	2,182	2,244	2,306	2,368	2,430	2,492	2,554	2,616	2,678	2,740	2,802	2,864	2,926	2,988	3,050	3,112	3,174	3,236
27						1,998	2,062	2,126	2,190	2,254	2,318	2,382	2,446	2,510	2,574	2,638	2,702	2,766	2,830	2,894	2,958	3,022	3,086	3,150	3,214	3,278	3,342
28							2,128	2,194	2,260	2,326	2,392	2,458	2,524	2,590	2,656	2,722	2,788	2,854	2,920	2,986	3,052	3,118	3,184	3,250	3,316	3,382	3,448
29								2,262	2,330	2,398	2,466	2,534	2,602	2,670	2,738	2,806	2,874	2,942	3,010	3,078	3,146	3,214	3,282	3,350	3,418	3,486	3,554
30									2,400	2,470	2,540	2,610	2,680	2,750	2,820	2,890	2,960	3,030	3,100	3,170	3,240	3,310	3,380	3,450	3,520	3,590	3,660
31										2,542	2,614	2,686	2,758	2,830	2,902	2,974	3,046	3,118	3,190	3,262	3,334	3,406	3,478	3,550	3,622	3,694	3,766
32											2,688	2,762	2,836	2,910	2,984	3,058	3,132	3,206	3,280	3,354	3,428	3,502	3,576	3,650	3,724	3,798	3,872
33												2,838	2,914	2,990	3,066	3,142	3,218	3,294	3,370	3,446	3,522	3,598	3,674	3,750	3,826	3,902	3,978
34													2,992	3,070	3,148	3,226	3,304	3,382	3,460	3,538	3,616	3,694	3,772	3,850	3,928	4,006	4,084
35														3,150	3,230	3,310	3,390	3,470	3,550	3,630	3,710	3,790	3,870	3,950	4,030	4,110	4,190
36															3,312	3,394	3,476	3,558	3,640	3,722	3,804	3,886	3,968	4,050	4,132	4,214	4,296
37																3,478	3,562	3,646	3,730	3,814	3,898	3,982	4,066	4,150	4,234	4,318	4,402
38																	3,648	3,734	3,820	3,906	3,992	4,078	4,164	4,250	4,336	4,422	4,508
39																		3,822	3,910	3,998	4,086	4,174	4,262	4,350	4,438	4,526	4,614
40																			4,000	4,090	4,180	4,270	4,360	4,450	4,540	4,630	4,720
41																				4,182	4,274	4,366	4,458	4,550	4,642	4,734	4,826
42																					4,368	4,462	4,556	4,650	4,744	4,838	4,932
43																						4,558	4,654	4,750	4,846	4,942	5,038
44																							4,752	4,850	4,948	5,046	5,144
45																								4,950	5,050	5,150	5,250
46																									5,152	5,254	5,356
47																										5,358	5,462
48																											5,568

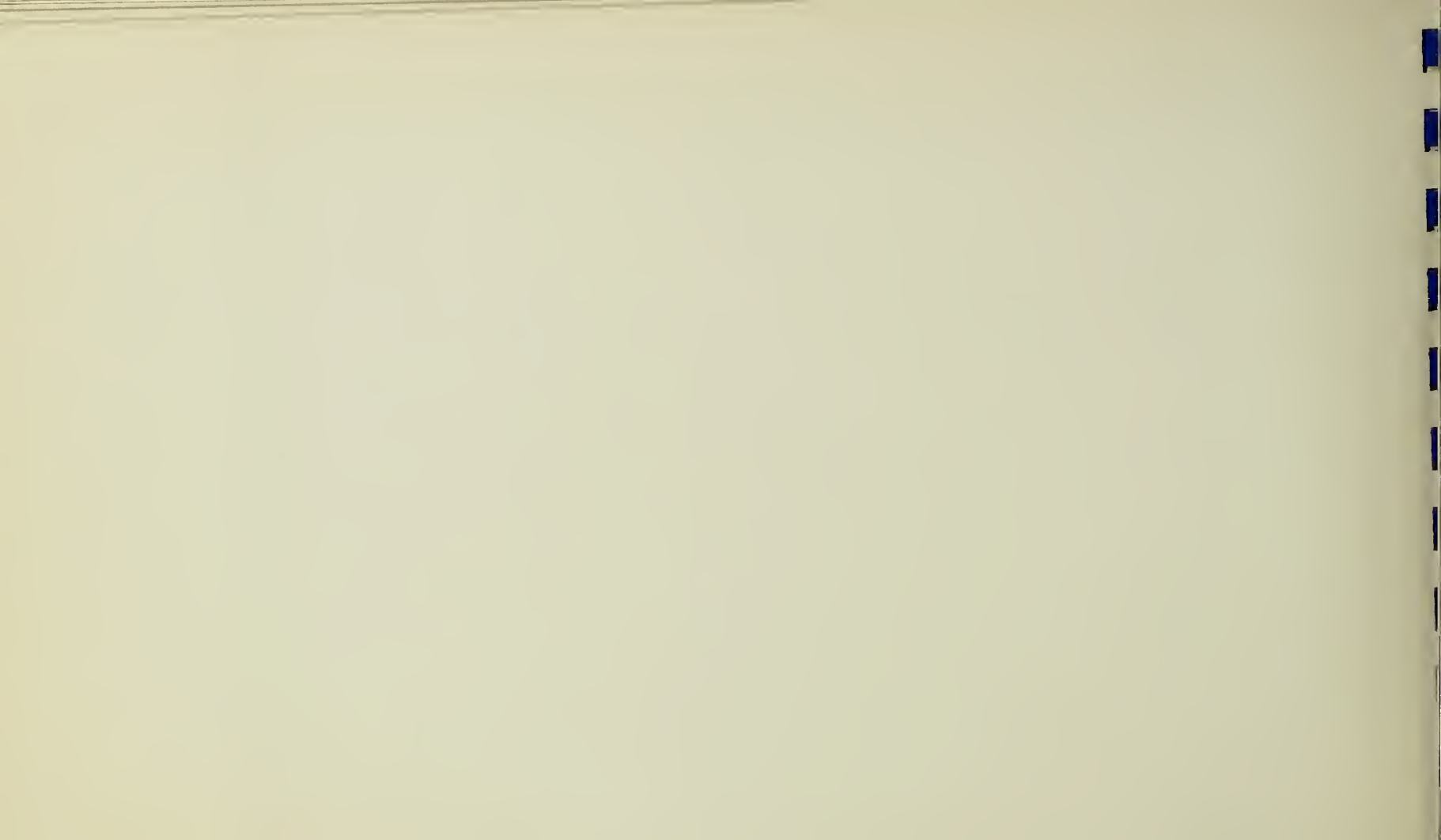
$5\frac{1}{2}$ "    6"     $6\frac{1}{2}$ "    7"     $7\frac{1}{2}$ "    8"     $8\frac{1}{2}$ "

INCHES	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21
5-1/2	191.5	192.5	203.5	214.5	225.5	236.5	247.5	258.5	269.5	280.5	291.5	302.5	313.5	324.5	335.5	346.5	357.5	368.5	379.5	390.5	412.5	434.5	456.5	478.5	500.5	522.5
6		204.0	225.5	227.0	238.5	250.0	261.5	273.0	284.5	296.0	307.5	319.0	330.5	342.0	353.5	365.0	376.5	388.0	399.5	411.0	434.0	457.0	480.0	503.0	526.0	549.0
6-1/2			227.5	239.5	251.5	263.5	275.5	287.5	299.5	311.5	323.5	335.5	347.5	359.5	371.5	383.5	395.5	407.5	419.5	431.5	455.5	479.5	503.5	527.5	551.5	575.5
7				252.0	264.5	277.0	289.5	302.0	314.5	327.0	339.5	352.0	364.5	377.0	389.5	402.0	414.5	427.0	439.5	452.0	477.0	502.0	527.0	552.0	577.0	602.0
7-1/2					277.5	290.5	303.5	316.5	329.5	342.5	355.5	368.5	381.5	394.5	407.5	420.5	433.5	446.5	459.5	472.5	498.5	524.5	550.5	576.5	602.5	628.5
8						304.0	317.5	331.0	344.5	358.0	371.5	385.0	398.5	412.0	425.5	439.0	452.5	466.0	479.5	493.0	520.0	547.0	574.0	601.0	628.0	655.0
8-1/2							331.5	345.5	359.5	373.5	387.5	401.5	415.5	429.5	443.5	457.5	471.5	485.5	499.5	513.5	541.5	569.5	597.5	625.5	653.5	681.5
9								360.0	374.5	389.0	403.5	418.0	432.5	447.0	461.5	476.0	490.5	505.0	519.5	534.0	563.0	592.0	621.0	650.0	679.0	708.0
9-1/2									389.5	404.5	419.5	434.5	449.5	464.5	479.5	494.5	509.5	524.5	539.5	554.5	584.5	614.5	644.5	674.5	704.5	734.5
10										420.0	435.5	451.0	466.5	482.0	497.5	513.0	528.5	544.0	559.5	575.0	606.0	637.0	668.0	699.0	730.0	761.0
10-1/2											451.5	467.5	483.5	499.5	515.5	531.5	547.5	563.5	579.5	595.5	627.5	659.5	691.5	723.5	755.5	787.5
11												484.0	500.5	517.0	533.5	550.0	566.5	583.0	599.5	616.0	649.0	682.0	715.0	748.0	781.0	814.0
11-1/2													517.5	534.5	551.5	568.5	585.5	602.5	619.5	636.5	670.5	704.5	738.5	772.5	806.5	840.5
12														552.0	569.5	587.0	604.5	622.0	639.5	657.0	692.0	727.0	762.0	797.0	832.0	867.0
12-1/2															587.5	605.5	623.5	641.5	659.5	677.5	713.5	749.5	785.5	821.5	857.5	893.5
13																624.0	642.5	661.0	679.5	698.0	735.0	772.0	809.0	846.0	883.0	920.0
13-1/2																	661.5	680.5	699.5	718.5	756.5	794.5	832.5	870.5	908.5	946.5
14																		700.0	719.5	739.0	778.0	817.0	856.0	895.0	934.0	973.0
14-1/2																			739.5	759.5	799.5	839.5	879.5	919.5	959.5	999.5
15																				780.0	821.0	862.0	903.0	944.0	985.0	1,026.0
16																					864.0	907.0	950.0	993.0	1,036.0	1,079.0
17																						952.0	997.0	1,042.0	1,087.0	1,132.0
18																							1,044.0	1,091.0	1,138.0	1,185.0
19																								1,140.0	1,189.0	1,238.0
20																									1,240.0	1,291.0
21																										1,344.0



22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
544.5	566.5	588.5	610.5	632.5	654.5	676.5	698.5	720.5	742.5	764.5	786.5	808.5	830.5	852.5	874.5	896.5	918.5	940.5	962.5	984.5	1,007	1,029	1,051	1,073	1,095	1,117	5-1/2
572.0	595.0	618.0	641.0	664.0	687.0	710.0	733.0	756.0	779.0	802.0	825.0	848.0	871.0	894.0	917.0	940.0	963.0	986.0	1,009	1,032	1,055	1,078	1,101	1,124	1,147	1,170	6
599.5	623.5	647.5	671.5	695.5	719.5	743.5	767.5	791.5	815.5	839.5	863.5	887.5	911.5	935.5	959.5	983.5	1,008	1,032	1,056	1,080	1,104	1,128	1,152	1,176	1,200	1,224	6-1/2
627.0	652.0	677.0	702.0	727.0	752.0	777.0	802.0	827.0	852.0	877.0	902.0	927.0	952.0	977.0	1,002	1,027	1,052	1,077	1,102	1,127	1,152	1,177	1,202	1,227	1,252	1,277	7
654.5	680.5	706.5	732.5	758.5	784.5	810.5	836.5	862.5	888.5	914.5	940.5	966.5	992.5	1,019	1,045	1,071	1,097	1,123	1,149	1,175	1,201	1,227	1,253	1,279	1,305	1,331	7-1/2
682.0	709.0	736.0	763.0	790.0	817.0	844.0	871.0	898.0	925.0	952.0	979.0	1,006	1,033	1,060	1,087	1,114	1,141	1,168	1,195	1,222	1,249	1,276	1,303	1,330	1,357	1,384	8
709.5	737.5	765.5	793.5	821.5	849.5	877.5	905.5	933.5	961.5	989.5	1,018	1,046	1,074	1,102	1,130	1,158	1,186	1,214	1,242	1,270	1,298	1,326	1,354	1,382	1,410	1,438	8-1/2
737.0	766.0	795.0	824.0	853.0	882.0	911.0	940.0	969.0	998.0	1,027	1,056	1,085	1,114	1,143	1,172	1,201	1,230	1,259	1,288	1,317	1,346	1,375	1,404	1,433	1,462	1,491	9
764.5	794.5	824.5	854.5	884.5	914.5	944.5	974.5	1,005	1,035	1,065	1,095	1,125	1,155	1,185	1,215	1,245	1,275	1,305	1,335	1,365	1,395	1,425	1,455	1,485	1,515	1,545	9-1/2
792.0	823.0	854.0	885.0	916.0	947.0	978.0	1,009	1,040	1,071	1,102	1,133	1,164	1,195	1,226	1,257	1,288	1,319	1,350	1,381	1,412	1,443	1,474	1,505	1,536	1,567	1,598	10
819.5	851.5	883.5	915.5	947.5	979.5	1,012	1,044	1,076	1,108	1,140	1,172	1,204	1,236	1,268	1,300	1,332	1,364	1,396	1,428	1,460	1,492	1,524	1,556	1,588	1,620	1,652	10-1/2
847.0	880.0	913.0	946.0	979.0	1,012	1,045	1,078	1,111	1,144	1,177	1,210	1,243	1,276	1,309	1,342	1,375	1,408	1,441	1,474	1,507	1,540	1,573	1,606	1,639	1,672	1,705	11
874.5	908.5	942.5	976.5	1,011	1,045	1,079	1,113	1,147	1,181	1,215	1,249	1,283	1,317	1,351	1,385	1,419	1,453	1,487	1,521	1,555	1,589	1,623	1,657	1,691	1,725	1,759	11-1/2
902.0	937.0	972.0	1,007	1,042	1,077	1,112	1,147	1,182	1,217	1,252	1,287	1,322	1,357	1,392	1,427	1,462	1,497	1,532	1,567	1,602	1,637	1,672	1,707	1,742	1,777	1,812	12
929.5	965.5	1,002	1,038	1,074	1,110	1,146	1,182	1,218	1,254	1,290	1,326	1,362	1,398	1,434	1,470	1,506	1,542	1,578	1,614	1,650	1,686	1,722	1,758	1,794	1,830	1,866	12-1/2
957.0	994.0	1,031	1,068	1,105	1,142	1,179	1,216	1,253	1,290	1,327	1,364	1,401	1,438	1,475	1,512	1,549	1,586	1,623	1,660	1,697	1,734	1,771	1,808	1,845	1,882	1,919	13
984.5	1,023	1,061	1,099	1,137	1,175	1,213	1,251	1,289	1,327	1,365	1,403	1,441	1,479	1,517	1,555	1,593	1,631	1,669	1,707	1,745	1,783	1,821	1,859	1,897	1,935	1,973	13-1/2
1,012	1,051	1,090	1,129	1,168	1,207	1,246	1,285	1,324	1,363	1,402	1,441	1,480	1,519	1,558	1,597	1,636	1,675	1,714	1,753	1,792	1,831	1,870	1,909	1,948	1,987	2,026	14
1,040	1,080	1,120	1,160	1,200	1,240	1,280	1,320	1,360	1,400	1,440	1,480	1,520	1,560	1,600	1,640	1,680	1,720	1,760	1,800	1,840	1,880	1,920	1,960	2,000	2,040	2,080	14-1/2
1,067	1,108	1,149	1,190	1,231	1,272	1,313	1,354	1,395	1,436	1,477	1,518	1,559	1,600	1,641	1,682	1,723	1,764	1,805	1,846	1,887	1,928	1,969	2,010	2,051	2,092	2,133	15
1,122	1,165	1,208	1,251	1,294	1,337	1,380	1,423	1,466	1,509	1,552	1,595	1,638	1,681	1,724	1,767	1,810	1,853	1,896	1,939	1,982	2,025	2,068	2,111	2,154	2,197	2,240	16
1,177	1,222	1,267	1,312	1,357	1,402	1,447	1,492	1,537	1,582	1,627	1,672	1,717	1,762	1,807	1,852	1,897	1,942	1,987	2,032	2,077	2,122	2,167	2,212	2,257	2,302	2,347	17
1,232	1,279	1,326	1,373	1,420	1,467	1,514	1,561	1,608	1,655	1,702	1,749	1,796	1,843	1,890	1,937	1,984	2,031	2,078	2,125	2,172	2,219	2,266	2,313	2,360	2,407	2,454	18
1,287	1,336	1,385	1,434	1,483	1,532	1,581	1,630	1,679	1,728	1,777	1,826	1,875	1,924	1,973	2,022	2,071	2,120	2,169	2,218	2,267	2,316	2,365	2,414	2,463	2,512	2,561	19
1,342	1,393	1,444	1,495	1,546	1,597	1,648	1,699	1,750	1,801	1,852	1,903	1,954	2,005	2,056	2,107	2,158	2,209	2,260	2,311	2,362	2,413	2,464	2,515	2,566	2,617	2,668	20
1,397	1,450	1,503	1,556	1,609	1,662	1,715	1,768	1,821	1,874	1,927	1,980	2,033	2,086	2,139	2,192	2,245	2,298	2,351	2,404	2,457	2,510	2,563	2,616	2,669	2,722	2,775	21

5 1/2    6    6 1/2    7    7 1/2    8    8 1/2

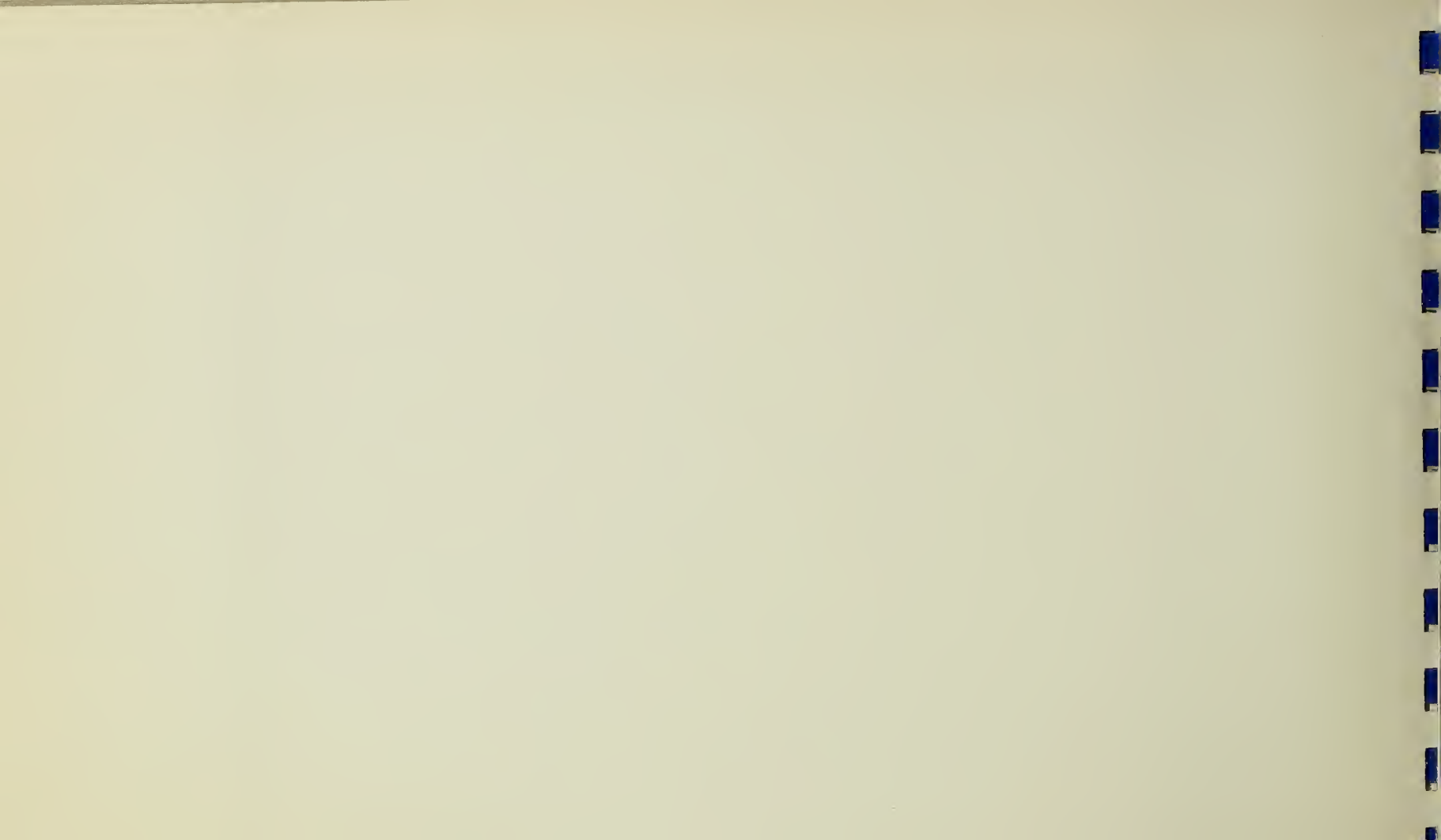


INCHES →	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48		
22	1,452	1,507	1,562	1,617	1,672	1,727	1,782	1,837	1,892	1,947	2,002	2,057	2,112	2,167	2,222	2,277	2,332	2,387	2,442	2,497	2,552	2,607	2,662	2,717	2,772	2,827	2,882		
23		1,564	1,621	1,678	1,735	1,792	1,849	1,906	1,963	2,020	2,077	2,134	2,191	2,248	2,305	2,362	2,419	2,476	2,533	2,590	2,647	2,704	2,761	2,818	2,875	2,932	2,989		
24			1,680	1,739	1,798	1,857	1,916	1,975	2,034	2,093	2,152	2,211	2,270	2,329	2,388	2,447	2,506	2,565	2,624	2,683	2,742	2,801	2,860	2,919	2,978	3,037	3,096		
25				1,800	1,861	1,922	1,983	2,044	2,105	2,166	2,227	2,288	2,349	2,410	2,471	2,532	2,593	2,654	2,715	2,776	2,837	2,898	2,959	3,020	3,081	3,142	3,203		
26					1,924	1,987	2,050	2,113	2,176	2,239	2,302	2,365	2,428	2,491	2,554	2,617	2,680	2,743	2,806	2,869	2,932	2,995	3,058	3,121	3,184	3,247	3,310		
27						2,052	2,117	2,182	2,247	2,312	2,377	2,442	2,507	2,572	2,637	2,702	2,767	2,832	2,897	2,962	3,027	3,092	3,157	3,222	3,287	3,352	3,417		
28							2,184	2,251	2,318	2,385	2,452	2,519	2,586	2,653	2,720	2,787	2,854	2,921	2,988	3,055	3,122	3,189	3,256	3,323	3,390	3,457	3,524		
29								2,320	2,389	2,458	2,527	2,596	2,665	2,734	2,803	2,872	2,941	3,010	3,079	3,148	3,217	3,286	3,355	3,424	3,493	3,562	3,631		
30									2,460	2,531	2,602	2,673	2,744	2,815	2,886	2,957	3,028	3,099	3,170	3,241	3,312	3,383	3,454	3,525	3,596	3,667	3,738		
31										2,604	2,677	2,750	2,823	2,896	2,969	3,042	3,115	3,188	3,261	3,334	3,407	3,480	3,553	3,626	3,699	3,772	3,845		
32											2,752	2,827	2,902	2,977	3,052	3,127	3,202	3,277	3,352	3,427	3,502	3,577	3,652	3,727	3,802	3,877	3,952		
33												2,904	2,981	3,058	3,135	3,212	3,289	3,366	3,443	3,520	3,597	3,674	3,751	3,828	3,905	3,982	4,059		
34													3,060	3,139	3,218	3,297	3,376	3,455	3,534	3,613	3,692	3,771	3,850	3,929	4,008	4,087	4,166		
35														3,220	3,301	3,382	3,463	3,544	3,625	3,706	3,787	3,868	3,949	4,030	4,111	4,192	4,273		
36															3,384	3,467	3,550	3,633	3,716	3,799	3,882	3,965	4,048	4,131	4,214	4,297	4,380		
37																3,552	3,637	3,722	3,807	3,892	3,977	4,062	4,147	4,232	4,317	4,402	4,487		
38																	3,724	3,811	3,898	3,985	4,072	4,159	4,246	4,333	4,420	4,507	4,594		
39																		3,900	3,989	4,078	4,167	4,256	4,345	4,434	4,523	4,612	4,701		
40																			4,080	4,171	4,262	4,353	4,444	4,535	4,626	4,717	4,808		
41																				4,264	4,357	4,450	4,543	4,636	4,729	4,822	4,915		
42																					4,452	4,547	4,642	4,737	4,832	4,927	5,022		
43																						4,644	4,741	4,838	4,935	5,032	5,129		
44																							4,840	4,939	5,038	5,137	5,236		
45																									5,040	5,141	5,242	5,343	
46																											5,244	5,347	5,450
47																												5,452	5,557
48																													5,664

INCHES	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22
6	216.0	228.0	240.0	252.0	264.0	276.0	288.0	300.0	312.0	324.0	336.0	348.0	360.0	372.0	384.0	396.0	408.0	420.0	432.0	456.0	480.0	504.0	528.0	552.0	576.0	600.0
6-1/2	240.5	253.0	265.5	278.0	290.5	303.0	315.5	328.0	340.5	353.0	365.5	378.0	390.5	403.0	415.5	428.0	440.5	453.0	478.0	503.0	528.0	553.0	578.0	603.0	628.0	
7		266.0	279.0	292.0	305.0	318.0	331.0	344.0	357.0	370.0	383.0	396.0	409.0	422.0	435.0	448.0	461.0	474.0	500.0	526.0	552.0	578.0	604.0	630.0	656.0	
7-1/2			292.5	306.0	319.5	333.0	346.5	360.0	373.5	387.0	400.5	414.0	427.5	441.0	454.5	468.0	481.5	495.0	522.0	549.0	576.0	603.0	630.0	657.0	684.0	
8				320.0	334.0	348.0	362.0	376.0	390.0	404.0	418.0	432.0	446.0	460.0	474.0	488.0	502.0	516.0	544.0	572.0	600.0	628.0	656.0	684.0	712.0	
8-1/2					348.5	363.0	377.5	392.0	406.5	421.0	435.5	450.0	464.5	479.0	493.5	508.0	522.5	537.0	566.0	595.0	624.0	653.0	682.0	711.0	740.0	
9						378.0	393.0	408.0	423.0	438.0	453.0	468.0	483.0	498.0	513.0	528.0	543.0	558.0	588.0	618.0	648.0	678.0	708.0	738.0	768.0	
9-1/2							408.5	424.0	439.5	455.0	470.5	486.0	501.5	517.0	532.5	548.0	563.5	579.0	610.0	641.0	672.0	703.0	734.0	765.0	796.0	
10								440.0	456.0	472.0	488.0	504.0	520.0	536.0	552.0	568.0	584.0	600.0	632.0	664.0	696.0	728.0	760.0	792.0	824.0	
10-1/2									472.5	489.0	505.5	522.0	538.5	555.0	571.5	588.0	604.5	621.0	654.0	687.0	720.0	753.0	786.0	819.0	852.0	
11										506.0	523.0	540.0	557.0	574.0	591.0	608.0	625.0	642.0	676.0	710.0	744.0	778.0	812.0	846.0	880.0	
11-1/2											540.5	558.0	575.5	593.0	610.5	628.0	645.5	663.0	698.0	733.0	768.0	803.0	838.0	873.0	908.0	
12												576.0	594.0	612.0	630.0	648.0	666.0	684.0	720.0	756.0	792.0	828.0	864.0	900.0	936.0	
12-1/2													612.5	631.0	649.5	668.0	686.5	705.0	742.0	779.0	816.0	853.0	890.0	927.0	964.0	
13														650.0	669.0	688.0	707.0	726.0	764.0	802.0	840.0	878.0	916.0	954.0	992.0	
13-1/2															688.5	708.0	727.5	747.0	786.0	825.0	864.0	903.0	942.0	981.0	1,020	
14																728.0	748.0	768.0	808.0	848.0	888.0	928.0	968.0	1,008	1,048	
14-1/2																	768.5	789.0	830.0	871.0	912.0	953.0	994.0	1,035	1,076	
15																			810.0	852.0	894.0	936.0	978.0	1,020	1,062	1,104
16																				896.0	940.0	984.0	1,028	1,072	1,116	1,160
17																					986.0	1,032	1,078	1,124	1,170	1,216
18																						1,080	1,128	1,176	1,224	1,272
19																							1,178	1,228	1,278	1,328
20																								1,280	1,332	1,384
21																									1,386	1,440
22																										1,496



23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
624.0	643.0	672.0	696.0	720.0	744.0	768.0	792.0	816.0	840.0	864.0	888.0	912.0	936.0	960.0	984.0	1,008	1,032	1,056	1,080	1,104	1,128	1,152	1,176	1,200	1,224	6
653.0	679.0	703.0	728.0	753.0	773.0	803.0	828.0	853.0	878.0	903.0	928.0	953.0	978.0	1,003	1,028	1,053	1,078	1,103	1,128	1,153	1,178	1,203	1,228	1,253	1,278	6 1/2
682.0	708.0	734.0	760.0	786.0	812.0	838.0	864.0	890.0	916.0	942.0	968.0	994.0	1,020	1,046	1,072	1,098	1,124	1,150	1,176	1,202	1,228	1,254	1,280	1,306	1,332	7
711.0	739.0	765.0	792.0	819.0	846.0	873.0	900.0	927.0	954.0	981.0	1,008	1,035	1,062	1,089	1,116	1,143	1,170	1,197	1,224	1,251	1,278	1,305	1,332	1,359	1,386	7 1/2
740.0	768.0	796.0	824.0	852.0	880.0	908.0	936.0	964.0	992.0	1,020	1,048	1,076	1,104	1,132	1,160	1,188	1,216	1,244	1,272	1,300	1,328	1,356	1,384	1,412	1,440	8
769.0	798.0	827.0	856.0	885.0	914.0	943.0	972.0	1,001	1,030	1,059	1,088	1,117	1,146	1,175	1,204	1,233	1,262	1,291	1,320	1,349	1,378	1,407	1,436	1,465	1,494	8 1/2
798.0	828.0	858.0	888.0	918.0	948.0	978.0	1,008	1,038	1,068	1,098	1,128	1,158	1,188	1,218	1,248	1,278	1,308	1,338	1,368	1,398	1,428	1,458	1,488	1,518	1,548	9
827.0	858.0	889.0	920.0	951.0	982.0	1,013	1,044	1,075	1,106	1,137	1,168	1,199	1,230	1,261	1,292	1,323	1,354	1,385	1,416	1,447	1,478	1,509	1,540	1,571	1,602	9 1/2
856.0	888.0	920.0	952.0	984.0	1,016	1,048	1,080	1,112	1,144	1,176	1,208	1,240	1,272	1,304	1,336	1,368	1,400	1,432	1,464	1,496	1,528	1,560	1,592	1,624	1,656	10
885.0	918.0	951.0	984.0	1,017	1,050	1,083	1,116	1,149	1,182	1,215	1,248	1,281	1,314	1,347	1,380	1,413	1,446	1,479	1,512	1,545	1,578	1,611	1,644	1,677	1,710	10 1/2
914.0	948.0	982.0	1,016	1,050	1,084	1,118	1,152	1,186	1,220	1,254	1,288	1,322	1,356	1,390	1,424	1,458	1,492	1,526	1,560	1,594	1,628	1,662	1,696	1,730	1,764	11
943.0	979.0	1,013	1,048	1,083	1,118	1,153	1,188	1,223	1,258	1,293	1,328	1,363	1,398	1,433	1,468	1,503	1,538	1,573	1,608	1,643	1,678	1,713	1,748	1,783	1,818	11 1/2
972.0	1,008	1,044	1,080	1,116	1,152	1,188	1,224	1,260	1,296	1,332	1,368	1,404	1,440	1,476	1,512	1,548	1,584	1,620	1,656	1,692	1,728	1,764	1,800	1,836	1,872	12
1,001	1,038	1,075	1,112	1,149	1,186	1,223	1,260	1,297	1,334	1,371	1,408	1,445	1,482	1,519	1,556	1,593	1,630	1,667	1,704	1,741	1,778	1,815	1,852	1,889	1,926	12 1/2
1,030	1,068	1,106	1,144	1,182	1,220	1,258	1,296	1,334	1,372	1,410	1,448	1,486	1,524	1,562	1,600	1,638	1,676	1,714	1,752	1,790	1,828	1,866	1,904	1,942	1,980	13
1,059	1,098	1,137	1,176	1,215	1,254	1,293	1,332	1,371	1,410	1,449	1,488	1,527	1,566	1,605	1,644	1,683	1,722	1,761	1,800	1,839	1,878	1,917	1,956	1,995	2,034	13 1/2
1,088	1,128	1,168	1,208	1,248	1,288	1,328	1,368	1,408	1,448	1,488	1,528	1,568	1,608	1,648	1,688	1,728	1,768	1,808	1,848	1,888	1,928	1,968	2,008	2,048	2,088	14
1,117	1,158	1,199	1,240	1,281	1,322	1,363	1,404	1,445	1,486	1,527	1,568	1,609	1,650	1,691	1,732	1,773	1,814	1,855	1,896	1,937	1,978	2,019	2,060	2,101	2,142	14 1/2
1,146	1,188	1,230	1,272	1,314	1,356	1,398	1,440	1,482	1,524	1,566	1,608	1,650	1,692	1,734	1,776	1,818	1,860	1,902	1,944	1,986	2,028	2,070	2,112	2,154	2,196	15
1,175	1,218	1,262	1,306	1,350	1,394	1,438	1,482	1,526	1,570	1,614	1,658	1,702	1,746	1,790	1,834	1,878	1,922	1,966	2,010	2,054	2,098	2,142	2,186	2,230	2,274	16
1,204	1,248	1,292	1,336	1,380	1,424	1,468	1,512	1,556	1,600	1,644	1,688	1,732	1,776	1,820	1,864	1,908	1,952	1,996	2,040	2,084	2,128	2,172	2,216	2,260	2,304	17
1,233	1,278	1,322	1,366	1,410	1,454	1,498	1,542	1,586	1,630	1,674	1,718	1,762	1,806	1,850	1,894	1,938	1,982	2,026	2,070	2,114	2,158	2,202	2,246	2,290	2,334	18
1,262	1,308	1,352	1,396	1,440	1,484	1,528	1,572	1,616	1,660	1,704	1,748	1,792	1,836	1,880	1,924	1,968	2,012	2,056	2,100	2,144	2,188	2,232	2,276	2,320	2,364	19
1,291	1,338	1,384	1,430	1,476	1,522	1,568	1,614	1,660	1,706	1,752	1,798	1,844	1,890	1,936	1,982	2,028	2,074	2,120	2,166	2,212	2,258	2,304	2,350	2,396	2,442	20
1,320	1,368	1,416	1,464	1,512	1,560	1,608	1,656	1,704	1,752	1,800	1,848	1,896	1,944	1,992	2,040	2,088	2,136	2,184	2,232	2,280	2,328	2,376	2,424	2,472	2,520	21
1,349	1,398	1,448	1,498	1,548	1,598	1,648	1,698	1,748	1,798	1,848	1,898	1,948	1,998	2,048	2,098	2,148	2,198	2,248	2,298	2,348	2,398	2,448	2,498	2,548	2,598	22
1,378	1,428	1,478	1,528	1,578	1,628	1,678	1,728	1,778	1,828	1,878	1,928	1,978	2,028	2,078	2,128	2,178	2,228	2,278	2,328	2,378	2,428	2,478	2,528	2,578	2,628	22
1,407	1,458	1,509	1,560	1,611	1,662	1,713	1,764	1,815	1,866	1,917	1,968	2,019	2,070	2,121	2,172	2,223	2,274	2,325	2,376	2,427	2,478	2,529	2,580	2,631	2,682	23
1,436	1,488	1,540	1,592	1,644	1,696	1,748	1,800	1,852	1,904	1,956	2,008	2,060	2,112	2,164	2,216	2,268	2,320	2,372	2,424	2,476	2,528	2,580	2,632	2,684	2,736	24
1,465	1,518	1,572	1,626	1,680	1,734	1,788	1,842	1,896	1,950	2,004	2,058	2,112	2,166	2,220	2,274	2,328	2,382	2,436	2,490	2,544	2,598	2,652	2,706	2,760	2,814	25
1,494	1,548	1,602	1,656	1,710	1,764	1,818	1,872	1,926	1,980	2,034	2,088	2,142	2,196	2,250	2,304	2,358	2,412	2,466	2,520	2,574	2,628	2,682	2,736	2,790	2,844	26
1,522	1,578	1,634	1,690	1,746	1,802	1,858	1,914	1,970	2,026	2,082	2,138	2,194	2,250	2,306	2,362	2,418	2,474	2,530	2,586	2,642	2,698	2,754	2,810	2,866	2,922	27
1,551	1,608	1,664	1,720	1,776	1,832	1,888	1,944	2,000	2,056	2,112	2,168	2,224	2,280	2,336	2,392	2,448	2,504	2,560	2,616	2,672	2,728	2,784	2,840	2,896	2,952	28

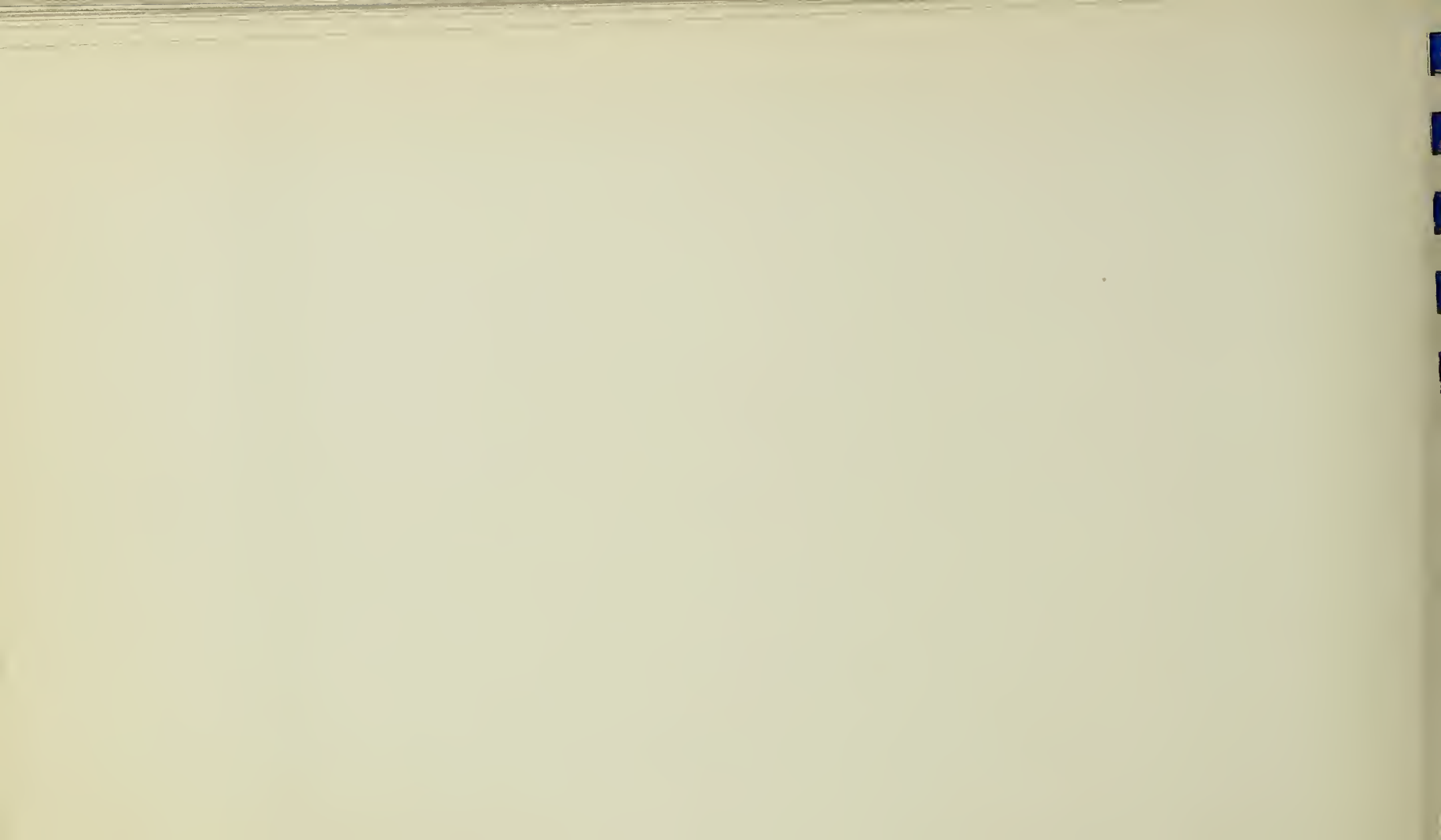


INCHES	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
23	1,610	1,663	1,726	1,784	1,842	1,900	1,958	2,016	2,074	2,132	2,190	2,248	2,306	2,364	2,422	2,480	2,538	2,596	2,654	2,712	2,770	2,828	2,886	2,944	3,002	3,060
24		1,723	1,783	1,843	1,903	1,963	2,023	2,083	2,143	2,203	2,263	2,323	2,383	2,443	2,503	2,563	2,623	2,683	2,743	2,803	2,863	2,923	2,983	3,043	3,103	3,163
25			1,850	1,912	1,974	2,036	2,098	2,160	2,222	2,284	2,346	2,408	2,470	2,532	2,594	2,656	2,718	2,780	2,842	2,904	2,966	3,028	3,090	3,152	3,214	3,276
26				1,976	2,040	2,104	2,168	2,232	2,296	2,360	2,424	2,488	2,552	2,616	2,680	2,744	2,808	2,872	2,936	3,000	3,064	3,128	3,192	3,256	3,320	3,384
27					2,106	2,172	2,238	2,304	2,370	2,436	2,502	2,568	2,634	2,700	2,766	2,832	2,898	2,964	3,030	3,096	3,162	3,228	3,294	3,360	3,426	3,492
28						2,240	2,308	2,376	2,444	2,512	2,580	2,648	2,716	2,784	2,852	2,920	2,988	3,056	3,124	3,192	3,260	3,328	3,396	3,464	3,532	3,600
29							2,378	2,448	2,518	2,588	2,658	2,728	2,798	2,868	2,938	3,008	3,078	3,148	3,218	3,288	3,358	3,428	3,498	3,568	3,638	3,708
30								2,520	2,592	2,664	2,736	2,808	2,880	2,952	3,024	3,096	3,168	3,240	3,312	3,384	3,456	3,528	3,600	3,672	3,744	3,816
31									2,666	2,740	2,814	2,888	2,962	3,036	3,110	3,184	3,258	3,332	3,406	3,480	3,554	3,628	3,702	3,776	3,850	3,924
32										2,816	2,892	2,968	3,044	3,120	3,196	3,272	3,348	3,424	3,500	3,576	3,652	3,728	3,804	3,880	3,956	4,032
33											2,970	3,048	3,126	3,204	3,282	3,360	3,438	3,516	3,594	3,672	3,750	3,828	3,906	3,984	4,062	4,140
34												3,128	3,208	3,288	3,368	3,448	3,528	3,608	3,688	3,768	3,848	3,928	4,008	4,088	4,168	4,248
35													3,290	3,372	3,454	3,536	3,618	3,700	3,782	3,864	3,946	4,028	4,110	4,192	4,274	4,356
36														3,456	3,540	3,624	3,708	3,792	3,876	3,960	4,044	4,128	4,212	4,296	4,380	4,464
37															3,626	3,712	3,798	3,884	3,970	4,056	4,142	4,228	4,314	4,400	4,486	4,572
38																3,800	3,888	3,976	4,064	4,152	4,240	4,328	4,416	4,504	4,592	4,680
39																	3,978	4,068	4,158	4,248	4,338	4,428	4,518	4,608	4,698	4,788
40																		4,160	4,252	4,344	4,436	4,528	4,620	4,712	4,804	4,896
41																			4,346	4,440	4,534	4,628	4,722	4,816	4,910	5,004
42																				4,536	4,632	4,728	4,824	4,920	5,016	5,112
43																					4,730	4,828	4,926	5,024	5,122	5,220
44																						4,928	5,028	5,128	5,228	5,328
45																							5,130	5,232	5,334	5,436
46																								5,336	5,440	5,544
47																									5,546	5,652
48																										5,760

INCHES	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22
6-1/2	253.5	266.5	279.5	292.5	305.5	318.5	331.5	344.5	357.5	370.5	383.5	396.5	409.5	422.5	435.5	448.5	461.5	474.5	500.5	526.5	552.5	578.5	604.5	630.5	656.5
7		280.0	293.5	307.0	320.5	334.0	347.5	361.0	374.5	388.0	401.5	415.0	428.5	442.0	455.5	469.0	482.5	496.0	523.0	550.0	577.0	604.0	631.0	658.0	685.0
7-1/2			307.5	321.5	335.5	349.5	363.5	377.5	391.5	405.5	419.5	433.5	447.5	461.5	475.5	489.5	503.5	517.5	545.5	573.5	601.5	629.5	657.5	685.5	713.5
8				336.0	350.5	365.0	379.5	394.0	408.5	423.0	437.5	452.0	466.5	481.0	495.5	510.0	524.5	539.0	568.0	597.0	626.0	655.0	684.0	713.0	742.0
8-1/2					365.5	380.5	395.5	410.5	425.5	440.5	455.5	470.5	485.5	500.5	515.5	530.5	545.5	560.5	590.5	620.5	650.5	680.5	710.5	740.5	770.5
9						396.0	411.5	427.0	442.5	458.0	473.5	489.0	504.5	520.0	535.5	551.0	566.5	582.0	613.0	644.0	675.0	706.0	737.0	768.0	799.0
9-1/2							427.5	443.5	459.5	475.5	491.5	507.5	523.5	539.5	555.5	571.5	587.5	603.5	635.5	667.5	699.5	731.5	763.5	795.5	827.5
10								460.0	476.5	493.0	509.5	526.0	542.5	559.0	575.5	592.0	608.5	625.0	658.0	691.0	724.0	757.0	790.0	823.0	856.0
10-1/2									493.5	510.5	527.5	544.5	561.5	578.5	595.5	612.5	629.5	646.5	680.5	714.5	748.5	782.5	816.5	850.5	884.5
11										528.0	545.5	563.0	580.5	598.0	615.5	633.0	650.5	668.0	703.0	738.0	773.0	808.0	843.0	878.0	913.0
11-1/2											563.5	581.5	599.5	617.5	635.5	653.5	671.5	689.5	725.5	761.5	797.5	833.5	869.5	905.5	941.5
12												600.0	618.5	637.0	655.5	674.0	692.5	711.0	748.0	785.0	822.0	859.0	896.0	933.0	970.0
12-1/2													637.5	656.5	675.5	694.5	713.5	732.5	770.5	808.5	846.5	884.5	922.5	960.5	998.5
13														676.0	695.5	715.0	734.5	754.0	793.0	832.0	871.0	910.0	949.0	988.0	1,027
13-1/2															715.5	735.5	755.5	775.5	815.5	855.5	895.5	935.5	975.5	1,016	1,056
14																756.0	776.5	797.0	838.0	879.0	920.0	961.0	1,002	1,043	1,084
14-1/2																	797.5	818.5	860.5	902.5	944.5	986.5	1,029	1,071	1,113
15																		840.0	883.0	926.0	969.0	1,012	1,055	1,098	1,141
16																			928.0	973.0	1,018	1,063	1,108	1,153	1,198
17																				1,020	1,067	1,114	1,161	1,208	1,255
18																					1,116	1,165	1,214	1,263	1,312
19																						1,216	1,267	1,318	1,369
20																							1,320	1,373	1,426
21																								1,428	1,483
22																									1,540



23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48 → INCHES	
682.5	708.5	734.5	760.5	786.5	812.5	838.5	864.5	890.5	916.5	942.5	968.5	994.5	1,021	1,047	1,073	1,099	1,125	1,151	1,177	1,203	1,229	1,255	1,281	1,307	1,333	6-1/2
712.0	739.0	766.0	793.0	820.0	847.0	874.0	901.0	928.0	955.0	982.0	1,009	1,036	1,063	1,090	1,117	1,144	1,171	1,198	1,225	1,252	1,279	1,306	1,333	1,360	1,387	7
741.5	769.5	797.5	825.5	853.5	881.5	909.5	937.5	965.5	993.5	1,022	1,050	1,078	1,106	1,134	1,162	1,190	1,218	1,246	1,274	1,302	1,330	1,358	1,386	1,414	1,442	7-1/2
771.0	800.0	829.0	858.0	887.0	916.0	945.0	974.0	1,003	1,032	1,061	1,090	1,119	1,148	1,177	1,206	1,235	1,264	1,293	1,322	1,351	1,380	1,409	1,438	1,467	1,496	8
800.5	830.5	860.5	890.5	920.5	950.5	980.5	1,011	1,041	1,071	1,101	1,131	1,161	1,191	1,221	1,251	1,281	1,311	1,341	1,371	1,401	1,431	1,461	1,491	1,521	1,551	8-1/2
830.0	861.0	892.0	923.0	954.0	985.0	1,016	1,047	1,078	1,109	1,140	1,171	1,202	1,233	1,264	1,295	1,326	1,357	1,388	1,419	1,450	1,481	1,512	1,543	1,574	1,605	9
859.5	891.5	923.5	955.5	987.5	1,020	1,052	1,084	1,116	1,148	1,180	1,212	1,244	1,276	1,308	1,340	1,372	1,404	1,436	1,468	1,500	1,532	1,564	1,596	1,628	1,660	9-1/2
889.0	922.0	955.0	988.0	1,021	1,054	1,087	1,120	1,153	1,186	1,219	1,252	1,285	1,318	1,351	1,384	1,417	1,450	1,483	1,516	1,549	1,582	1,615	1,648	1,681	1,714	10
918.5	952.5	986.5	1,021	1,055	1,089	1,123	1,157	1,191	1,225	1,259	1,293	1,327	1,361	1,395	1,429	1,463	1,497	1,531	1,565	1,599	1,633	1,667	1,701	1,735	1,769	10-1/2
948.0	983.0	1,018	1,053	1,088	1,123	1,158	1,193	1,228	1,263	1,298	1,333	1,368	1,403	1,438	1,473	1,508	1,543	1,578	1,613	1,648	1,683	1,718	1,753	1,788	1,823	11
977.5	1,014	1,050	1,086	1,122	1,158	1,194	1,230	1,266	1,302	1,338	1,374	1,410	1,446	1,482	1,518	1,554	1,590	1,626	1,662	1,698	1,734	1,770	1,806	1,842	1,878	11-1/2
1,007	1,044	1,081	1,118	1,155	1,192	1,229	1,266	1,303	1,340	1,377	1,414	1,451	1,488	1,525	1,562	1,599	1,636	1,673	1,710	1,747	1,784	1,821	1,858	1,895	1,932	12
1,037	1,075	1,113	1,151	1,189	1,227	1,265	1,303	1,341	1,379	1,417	1,455	1,493	1,531	1,569	1,607	1,645	1,683	1,721	1,759	1,797	1,835	1,873	1,911	1,949	1,987	12-1/2
1,066	1,105	1,144	1,183	1,222	1,261	1,300	1,339	1,378	1,417	1,456	1,495	1,534	1,573	1,612	1,651	1,690	1,729	1,768	1,807	1,846	1,885	1,924	1,963	2,002	2,041	13
1,096	1,136	1,176	1,216	1,256	1,296	1,336	1,376	1,416	1,456	1,496	1,536	1,576	1,616	1,656	1,696	1,736	1,776	1,816	1,856	1,896	1,936	1,976	2,016	2,056	2,096	13-1/2
1,125	1,166	1,207	1,248	1,289	1,330	1,371	1,412	1,453	1,494	1,535	1,576	1,617	1,658	1,699	1,740	1,781	1,822	1,863	1,904	1,945	1,986	2,027	2,068	2,109	2,150	14
1,155	1,197	1,239	1,281	1,323	1,365	1,407	1,449	1,491	1,533	1,575	1,617	1,659	1,701	1,743	1,785	1,827	1,869	1,911	1,953	1,995	2,037	2,079	2,121	2,163	2,205	14-1/2
1,184	1,227	1,270	1,313	1,356	1,399	1,442	1,485	1,528	1,571	1,614	1,657	1,700	1,743	1,786	1,829	1,872	1,915	1,958	2,001	2,044	2,087	2,130	2,173	2,216	2,259	15
1,213	1,258	1,303	1,347	1,423	1,468	1,513	1,558	1,603	1,648	1,693	1,738	1,783	1,828	1,873	1,918	1,963	2,008	2,053	2,098	2,143	2,188	2,233	2,278	2,323	2,368	16
1,302	1,349	1,396	1,443	1,490	1,537	1,584	1,631	1,678	1,725	1,772	1,819	1,866	1,913	1,960	2,007	2,054	2,101	2,148	2,195	2,242	2,289	2,336	2,383	2,430	2,477	17
1,361	1,410	1,459	1,508	1,557	1,606	1,655	1,704	1,753	1,802	1,851	1,900	1,949	1,998	2,047	2,096	2,145	2,194	2,243	2,292	2,341	2,390	2,439	2,488	2,537	2,586	18
1,420	1,471	1,522	1,573	1,624	1,675	1,726	1,777	1,828	1,879	1,930	1,981	2,032	2,083	2,134	2,185	2,236	2,287	2,338	2,389	2,440	2,491	2,542	2,593	2,644	2,695	19
1,479	1,532	1,585	1,638	1,691	1,744	1,797	1,850	1,903	1,956	2,009	2,062	2,115	2,168	2,221	2,274	2,327	2,380	2,433	2,486	2,539	2,592	2,645	2,698	2,751	2,804	20
1,538	1,593	1,648	1,703	1,758	1,813	1,868	1,923	1,978	2,033	2,088	2,143	2,198	2,253	2,308	2,363	2,418	2,473	2,528	2,583	2,638	2,693	2,748	2,803	2,858	2,913	21
1,597	1,654	1,711	1,768	1,825	1,882	1,939	1,996	2,053	2,110	2,167	2,224	2,281	2,338	2,395	2,452	2,509	2,566	2,623	2,680	2,737	2,794	2,851	2,908	2,965	3,022	22

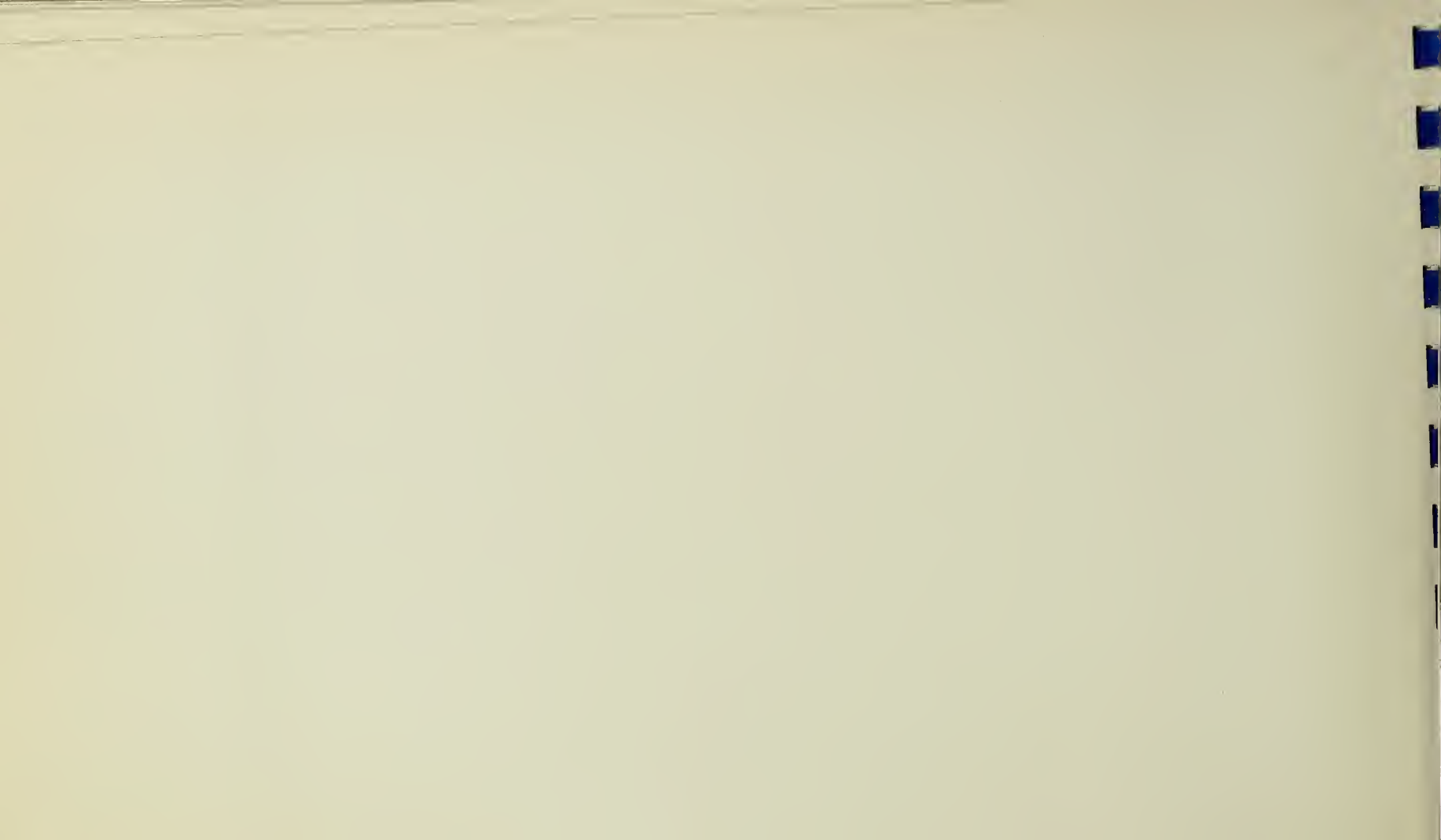


INCHES	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
23	1,656	1,715	1,774	1,833	1,892	1,951	2,010	2,069	2,128	2,187	2,246	2,305	2,364	2,423	2,482	2,541	2,600	2,659	2,718	2,777	2,836	2,895	2,954	3,013	3,072	3,131
24		1,776	1,837	1,898	1,959	2,020	2,081	2,142	2,203	2,264	2,325	2,386	2,447	2,508	2,569	2,630	2,691	2,752	2,813	2,874	2,935	2,996	3,057	3,118	3,179	3,240
25			1,900	1,963	2,026	2,089	2,152	2,215	2,278	2,341	2,404	2,467	2,530	2,593	2,656	2,719	2,782	2,845	2,908	2,971	3,034	3,097	3,160	3,223	3,286	3,349
26				2,028	2,093	2,158	2,223	2,288	2,353	2,418	2,483	2,548	2,613	2,678	2,743	2,808	2,873	2,938	3,003	3,068	3,133	3,198	3,263	3,328	3,393	3,458
27					2,160	2,227	2,294	2,361	2,428	2,495	2,562	2,629	2,696	2,763	2,830	2,897	2,964	3,031	3,098	3,165	3,232	3,299	3,366	3,433	3,500	3,567
28						2,296	2,365	2,434	2,503	2,572	2,641	2,710	2,779	2,848	2,917	2,986	3,055	3,124	3,193	3,262	3,331	3,400	3,469	3,538	3,607	3,676
29							2,436	2,507	2,578	2,649	2,720	2,791	2,862	2,933	3,004	3,075	3,146	3,217	3,288	3,359	3,430	3,501	3,572	3,643	3,714	3,785
30								2,580	2,653	2,726	2,799	2,872	2,945	3,018	3,091	3,164	3,237	3,310	3,383	3,456	3,529	3,602	3,675	3,748	3,821	3,894
31									2,728	2,803	2,878	2,953	3,028	3,103	3,178	3,253	3,328	3,403	3,478	3,553	3,628	3,703	3,778	3,853	3,928	4,003
32										2,880	2,957	3,034	3,111	3,188	3,265	3,342	3,419	3,496	3,573	3,650	3,727	3,804	3,881	3,958	4,035	4,112
33											3,036	3,115	3,194	3,273	3,352	3,431	3,510	3,589	3,668	3,747	3,826	3,905	3,984	4,063	4,142	4,221
34												3,196	3,277	3,358	3,439	3,520	3,601	3,682	3,763	3,844	3,925	4,006	4,087	4,168	4,249	4,330
35													3,360	3,443	3,526	3,609	3,692	3,775	3,858	3,941	4,024	4,107	4,190	4,273	4,356	4,439
36														3,528	3,613	3,698	3,783	3,868	3,953	4,038	4,123	4,208	4,293	4,378	4,463	4,548
37															3,700	3,787	3,874	3,961	4,048	4,135	4,222	4,309	4,396	4,483	4,570	4,657
38																3,876	3,965	4,054	4,143	4,232	4,321	4,410	4,499	4,588	4,677	4,766
39																	4,056	4,147	4,238	4,329	4,420	4,511	4,602	4,693	4,784	4,875
40																		4,240	4,333	4,426	4,519	4,612	4,705	4,798	4,891	4,984
41																			4,428	4,523	4,618	4,713	4,808	4,903	4,998	5,093
42																				4,620	4,717	4,814	4,911	5,008	5,105	5,202
43																					4,816	4,915	5,014	5,113	5,212	5,311
44																						5,016	5,117	5,218	5,319	5,420
45																							5,220	5,323	5,426	5,529
46																								5,428	5,533	5,638
47																									5,640	5,747
48																										5,856

INCHES →	7	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23
7	294.0	308.0	322.0	336.0	350.0	364.0	378.0	392.0	406.0	420.0	434.0	448.0	462.0	476.0	490.0	504.0	518.0	546.0	574.0	602.0	630.0	658.0	686.0	714.0	742.0
7-1/2		322.5	337.0	351.5	366.0	380.5	395.0	409.5	424.0	438.5	453.0	467.5	482.0	496.5	511.0	525.5	540.0	569.0	598.0	627.0	656.0	685.0	714.0	743.0	772.0
8			352.0	367.0	382.0	397.0	412.0	427.0	442.0	457.0	472.0	487.0	502.0	517.0	532.0	547.0	562.0	592.0	622.0	652.0	682.0	712.0	742.0	772.0	802.0
8-1/2				382.5	398.0	413.5	429.0	444.5	460.0	475.5	491.0	506.5	522.0	537.5	553.0	568.5	584.0	615.0	646.0	677.0	708.0	739.0	770.0	801.0	832.0
9					414.0	430.0	446.0	462.0	478.0	494.0	510.0	526.0	542.0	558.0	574.0	590.0	606.0	638.0	670.0	702.0	734.0	766.0	798.0	830.0	862.0
9-1/2						446.5	463.0	479.5	496.0	512.5	529.0	545.5	562.0	578.5	595.0	611.5	628.0	661.0	694.0	727.0	760.0	793.0	826.0	859.0	892.0
10							480.0	497.0	514.0	531.0	548.0	565.0	582.0	599.0	616.0	633.0	650.0	684.0	718.0	752.0	786.0	820.0	854.0	888.0	922.0
10-1/2								514.5	532.0	549.5	567.0	584.5	602.0	619.5	637.0	654.5	672.0	707.0	742.0	777.0	812.0	847.0	882.0	917.0	952.0
11									550.0	568.0	586.0	604.0	622.0	640.0	658.0	676.0	694.0	730.0	766.0	802.0	838.0	874.0	910.0	946.0	982.0
11-1/2										586.5	605.0	623.5	642.0	660.5	679.0	697.5	716.0	753.0	790.0	827.0	864.0	901.0	938.0	975.0	1,012
12											624.0	643.0	662.0	681.0	700.0	719.0	738.0	776.0	814.0	852.0	890.0	928.0	966.0	1,004	1,042
12-1/2												662.5	682.0	701.5	721.0	740.5	760.0	799.0	838.0	877.0	916.0	955.0	994.0	1,033	1,072
13													702.0	722.0	742.0	762.0	782.0	822.0	862.0	902.0	942.0	982.0	1,022	1,062	1,102
13-1/2														742.5	763.0	783.5	804.0	845.0	886.0	927.0	968.0	1,009	1,050	1,091	1,132
14															784.0	805.0	826.0	868.0	910.0	952.0	994.0	1,036	1,078	1,120	1,162
14-1/2																826.5	848.0	891.0	934.0	977.0	1,020	1,063	1,106	1,149	1,192
15																	870.0	914.0	958.0	1,002	1,046	1,090	1,134	1,178	1,222
16																		960.0	1,006	1,052	1,098	1,144	1,190	1,236	1,282
17																				1,054	1,102	1,150	1,198	1,246	1,294
18																					1,152	1,202	1,252	1,302	1,352
19																						1,254	1,306	1,358	1,410
20																							1,360	1,414	1,468
21																								1,470	1,526
22																									1,534
23																									1,702



24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
770.0	793.0	826.0	854.0	882.0	910.0	938.0	966.0	994.0	1,022	1,050	1,078	1,106	1,134	1,162	1,190	1,218	1,246	1,274	1,302	1,330	1,358	1,386	1,414	1,442	7
801.0	830.0	859.0	888.0	917.0	946.0	975.0	1,004	1,033	1,062	1,091	1,120	1,149	1,178	1,207	1,236	1,265	1,294	1,323	1,352	1,381	1,410	1,439	1,468	1,497	7-1/2
832.0	862.0	892.0	922.0	952.0	982.0	1,012	1,042	1,072	1,102	1,132	1,162	1,192	1,222	1,252	1,282	1,312	1,342	1,372	1,402	1,432	1,462	1,492	1,522	1,552	8
863.0	894.0	925.0	956.0	987.0	1,018	1,049	1,080	1,111	1,142	1,173	1,204	1,235	1,266	1,297	1,328	1,359	1,390	1,421	1,452	1,483	1,514	1,545	1,576	1,607	8-1/2
894.0	926.0	958.0	990.0	1,022	1,054	1,086	1,118	1,150	1,182	1,214	1,246	1,278	1,310	1,342	1,374	1,406	1,438	1,470	1,502	1,534	1,566	1,598	1,630	1,662	9
925.0	958.0	991.0	1,024	1,057	1,090	1,123	1,156	1,189	1,222	1,255	1,288	1,321	1,354	1,387	1,420	1,453	1,486	1,519	1,552	1,585	1,618	1,651	1,684	1,717	9-1/2
956.0	990.0	1,024	1,058	1,092	1,126	1,160	1,194	1,228	1,262	1,296	1,330	1,364	1,398	1,432	1,466	1,500	1,534	1,568	1,602	1,636	1,670	1,704	1,738	1,772	10
987.0	1,022	1,057	1,092	1,127	1,162	1,197	1,232	1,267	1,302	1,337	1,372	1,407	1,442	1,477	1,512	1,547	1,582	1,617	1,652	1,687	1,722	1,757	1,792	1,827	10-1/2
1,018	1,054	1,090	1,126	1,162	1,198	1,234	1,270	1,306	1,342	1,378	1,414	1,450	1,486	1,522	1,558	1,594	1,630	1,666	1,702	1,738	1,774	1,810	1,846	1,882	11
1,049	1,086	1,123	1,160	1,197	1,234	1,271	1,308	1,345	1,382	1,419	1,456	1,493	1,530	1,567	1,604	1,641	1,678	1,715	1,752	1,789	1,826	1,863	1,900	1,937	11-1/2
1,080	1,118	1,156	1,194	1,232	1,270	1,308	1,346	1,384	1,422	1,460	1,498	1,536	1,574	1,612	1,650	1,688	1,726	1,764	1,802	1,840	1,878	1,916	1,954	1,992	12
1,111	1,150	1,189	1,228	1,267	1,306	1,345	1,384	1,423	1,462	1,501	1,540	1,579	1,618	1,657	1,696	1,735	1,774	1,813	1,852	1,891	1,930	1,969	2,008	2,047	12-1/2
1,142	1,182	1,222	1,262	1,302	1,342	1,382	1,422	1,462	1,502	1,542	1,582	1,622	1,662	1,702	1,742	1,782	1,822	1,862	1,902	1,942	1,982	2,022	2,062	2,102	13
1,173	1,214	1,255	1,296	1,337	1,378	1,419	1,460	1,501	1,542	1,583	1,624	1,665	1,706	1,747	1,788	1,829	1,870	1,911	1,952	1,993	2,034	2,075	2,116	2,157	13-1/2
1,204	1,246	1,288	1,330	1,372	1,414	1,456	1,498	1,540	1,582	1,624	1,666	1,708	1,750	1,792	1,834	1,876	1,918	1,960	2,002	2,044	2,086	2,128	2,170	2,212	14
1,235	1,278	1,321	1,364	1,407	1,450	1,493	1,536	1,579	1,622	1,665	1,708	1,751	1,794	1,837	1,880	1,923	1,966	2,009	2,052	2,095	2,138	2,181	2,224	2,267	14-1/2
1,266	1,310	1,354	1,398	1,442	1,486	1,530	1,574	1,618	1,662	1,706	1,750	1,794	1,838	1,882	1,926	1,970	2,014	2,058	2,102	2,146	2,190	2,234	2,278	2,322	15
1,298	1,374	1,420	1,466	1,512	1,558	1,604	1,650	1,696	1,742	1,788	1,834	1,880	1,926	1,972	2,018	2,064	2,110	2,156	2,202	2,248	2,294	2,340	2,386	2,432	16
1,330	1,438	1,486	1,534	1,582	1,630	1,678	1,726	1,774	1,822	1,870	1,918	1,966	2,014	2,062	2,110	2,158	2,206	2,254	2,302	2,350	2,398	2,446	2,494	2,542	17
1,452	1,502	1,552	1,602	1,652	1,702	1,752	1,802	1,852	1,902	1,952	2,002	2,052	2,102	2,152	2,202	2,252	2,302	2,352	2,402	2,452	2,502	2,552	2,602	2,652	18
1,514	1,566	1,618	1,670	1,722	1,774	1,826	1,878	1,930	1,982	2,034	2,086	2,138	2,190	2,242	2,294	2,346	2,398	2,450	2,502	2,554	2,606	2,658	2,710	2,762	19
1,576	1,630	1,684	1,738	1,792	1,846	1,900	1,954	2,008	2,062	2,116	2,170	2,224	2,278	2,332	2,386	2,440	2,494	2,548	2,602	2,656	2,710	2,764	2,818	2,872	20
1,638	1,694	1,750	1,806	1,862	1,918	1,974	2,030	2,086	2,142	2,198	2,254	2,310	2,366	2,422	2,478	2,534	2,590	2,646	2,702	2,758	2,814	2,870	2,926	2,982	21
1,700	1,758	1,816	1,874	1,932	1,990	2,048	2,106	2,164	2,222	2,280	2,338	2,396	2,454	2,512	2,570	2,628	2,686	2,744	2,802	2,860	2,918	2,976	3,034	3,092	22
1,762	1,822	1,882	1,942	2,002	2,062	2,122	2,182	2,242	2,302	2,362	2,422	2,482	2,542	2,602	2,662	2,722	2,782	2,842	2,902	2,962	3,022	3,082	3,142	3,202	23



INCHES	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
24	1,824	1,886	1,948	2,010	2,072	2,134	2,196	2,258	2,320	2,382	2,444	2,506	2,568	2,630	2,692	2,754	2,816	2,878	2,940	3,002	3,064	3,126	3,188	3,250	3,312
25		1,950	2,014	2,078	2,142	2,206	2,270	2,334	2,398	2,462	2,526	2,590	2,654	2,718	2,782	2,846	2,910	2,974	3,038	3,102	3,166	3,230	3,294	3,358	3,422
26			2,080	2,146	2,212	2,278	2,344	2,410	2,476	2,542	2,608	2,674	2,740	2,806	2,872	2,938	3,004	3,070	3,136	3,202	3,268	3,334	3,400	3,466	3,532
27				2,214	2,282	2,350	2,418	2,486	2,554	2,622	2,690	2,758	2,826	2,894	2,962	3,030	3,098	3,166	3,234	3,302	3,370	3,438	3,506	3,574	3,642
28					2,352	2,422	2,492	2,562	2,632	2,702	2,772	2,842	2,912	2,982	3,052	3,122	3,192	3,262	3,332	3,402	3,472	3,542	3,612	3,682	3,752
29						2,494	2,566	2,638	2,710	2,782	2,854	2,926	2,998	3,070	3,142	3,214	3,286	3,358	3,430	3,502	3,574	3,646	3,718	3,790	3,862
30							2,640	2,714	2,788	2,862	2,936	3,010	3,084	3,158	3,232	3,306	3,380	3,454	3,528	3,602	3,676	3,750	3,824	3,898	3,972
31								2,790	2,866	2,942	3,018	3,094	3,170	3,246	3,322	3,398	3,474	3,550	3,626	3,702	3,778	3,854	3,930	4,006	4,082
32									2,944	3,022	3,100	3,178	3,256	3,334	3,412	3,490	3,568	3,646	3,724	3,802	3,880	3,958	4,036	4,114	4,192
33										3,102	3,182	3,262	3,342	3,422	3,502	3,582	3,662	3,742	3,822	3,902	3,982	4,062	4,142	4,222	4,302
34											3,264	3,346	3,428	3,510	3,592	3,674	3,756	3,838	3,920	4,002	4,084	4,166	4,248	4,330	4,412
35												3,430	3,514	3,598	3,682	3,766	3,850	3,934	4,018	4,102	4,186	4,270	4,354	4,438	4,522
36													3,600	3,686	3,772	3,858	3,944	4,030	4,116	4,202	4,288	4,374	4,460	4,546	4,632
37														3,774	3,862	3,950	4,038	4,126	4,214	4,302	4,390	4,478	4,566	4,654	4,742
38															3,952	4,042	4,132	4,222	4,312	4,402	4,492	4,582	4,672	4,762	4,852
39																4,134	4,226	4,318	4,410	4,502	4,594	4,686	4,778	4,870	4,962
40																	4,320	4,414	4,508	4,602	4,696	4,790	4,884	4,978	5,072
41																		4,510	4,606	4,702	4,798	4,894	4,990	5,086	5,182
42																			4,704	4,802	4,900	4,998	5,096	5,194	5,292
43																				4,902	5,002	5,102	5,202	5,302	5,402
44																					5,104	5,206	5,308	5,410	5,512
45																						5,310	5,414	5,518	5,622
46																							5,520	5,626	5,732
47																								5,734	5,842
48																									5,952

INCHES	7-1/2	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23
7-1/2	12 337.5	352.5	367.5	382.5	397.5	412.5	427.5	442.5	457.5	472.5	487.5	502.5	517.5	532.5	547.5	562.5	592.5	622.5	652.5	682.5	712.5	742.5	772.5	802.5
8		13 363.0	383.5	399.0	414.5	430.0	445.5	461.0	476.5	492.0	507.5	523.0	538.5	554.0	569.5	585.0	616.0	647.0	678.0	709.0	740.0	771.0	802.0	833.0
8-1/2			13 399.5	415.5	431.5	447.5	463.5	479.5	495.5	511.5	527.5	543.5	559.5	575.5	591.5	607.5	639.5	671.5	703.5	735.5	767.5	799.5	831.5	863.5
9				13 432.0	448.5	465.0	481.5	498.0	514.5	531.0	547.5	564.0	580.5	597.0	613.5	630.0	663.0	696.0	729.0	762.0	795.0	828.0	861.0	894.0
9-1/2					13 465.5	482.5	499.5	516.5	533.5	550.5	567.5	584.5	601.5	618.5	635.5	652.5	686.5	720.5	754.5	788.5	822.5	856.5	890.5	924.5
10						13 500.0	517.5	535.0	552.5	570.0	587.5	605.0	622.5	640.0	657.5	675.0	710.0	745.0	780.0	815.0	850.0	885.0	920.0	955.0
10-1/2							13 535.5	553.5	571.5	589.5	607.5	625.5	643.5	661.5	679.5	697.5	733.5	769.5	805.5	841.5	877.5	913.5	949.5	985.5
11								13 572.0	590.5	609.0	627.5	646.0	664.5	683.0	701.5	720.0	757.0	794.0	831.0	868.0	905.0	942.0	979.0	1,016.0
11-1/2									13 609.5	628.5	647.5	666.5	685.5	704.5	723.5	742.5	780.5	818.5	856.5	894.5	932.5	970.5	1,009.0	1,047.0
12										13 648.0	667.5	687.0	706.5	726.0	745.5	765.0	804.0	843.0	882.0	921.0	960.0	999.0	1,038.0	1,077.0
12-1/2											13 687.5	707.5	727.5	747.5	767.5	787.5	827.5	867.5	907.5	947.5	987.5	1,028.0	1,068.0	1,108.0
13												13 728.0	748.5	769.0	789.5	810.0	851.0	892.0	933.0	974.0	1,015.0	1,056.0	1,097.0	1,138.0
13-1/2													13 769.5	790.5	811.5	832.5	874.5	916.5	958.5	1,001.0	1,043.0	1,085.0	1,127.0	1,169.0
14														13 812.0	833.5	855.0	898.0	941.0	984.0	1,027.0	1,070.0	1,113.0	1,156.0	1,199.0
14-1/4															13 855.5	877.5	921.5	965.5	1,010.0	1,054.0	1,098.0	1,142.0	1,186.0	1,230.0
15																13 900.0	945.0	990.0	1,035.0	1,080.0	1,125.0	1,170.0	1,215.0	1,260.0
16																	13 992.0	1,039.0	1,086.0	1,133.0	1,180.0	1,227.0	1,274.0	1,321.0
17																		13 1,088.0	1,137.0	1,186.0	1,235.0	1,284.0	1,333.0	1,382.0
18																			13 1,188.0	1,239.0	1,290.0	1,341.0	1,392.0	1,443.0
19																				13 1,292.0	1,345.0	1,398.0	1,451.0	1,504.0
20																					13 1,400.0	1,455.0	1,510.0	1,565.0
21																						13 1,512.0	1,569.0	1,626.0
22																							13 1,628.0	1,687.0
23																								13 1,748.0



24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
832.5	862.5	892.5	922.5	952.5	982.5	1,013	1,043	1,073	1,103	1,133	1,163	1,193	1,223	1,253	1,283	1,313	1,343	1,373	1,403	1,433	1,463	1,493	1,523	1,553	7-1/2
864.0	895.0	926.0	957.0	988.0	1,019	1,050	1,081	1,112	1,143	1,174	1,205	1,236	1,267	1,298	1,329	1,360	1,391	1,422	1,453	1,484	1,515	1,546	1,577	1,608	8
895.5	927.5	959.5	991.5	1,024	1,056	1,088	1,120	1,152	1,184	1,216	1,248	1,280	1,312	1,344	1,376	1,408	1,440	1,472	1,504	1,536	1,568	1,600	1,632	1,664	8-1/2
927.0	960.0	993.0	1,026	1,059	1,092	1,125	1,158	1,191	1,224	1,257	1,290	1,323	1,356	1,389	1,422	1,455	1,488	1,521	1,554	1,587	1,620	1,653	1,686	1,719	9
958.5	992.5	1,027	1,061	1,095	1,129	1,163	1,197	1,231	1,265	1,299	1,333	1,367	1,401	1,435	1,469	1,503	1,537	1,571	1,605	1,639	1,673	1,707	1,741	1,775	9-1/2
990.0	1,025	1,060	1,095	1,130	1,165	1,200	1,235	1,270	1,305	1,340	1,375	1,410	1,445	1,480	1,515	1,550	1,585	1,620	1,655	1,690	1,725	1,760	1,795	1,830	10
1,022	1,058	1,094	1,130	1,166	1,202	1,238	1,274	1,310	1,346	1,382	1,418	1,454	1,490	1,526	1,562	1,598	1,634	1,670	1,706	1,742	1,778	1,814	1,850	1,886	10-1/2
1,053	1,090	1,127	1,164	1,201	1,238	1,275	1,312	1,349	1,386	1,423	1,460	1,497	1,534	1,571	1,608	1,645	1,682	1,719	1,756	1,793	1,830	1,867	1,904	1,941	11
1,085	1,123	1,161	1,199	1,237	1,275	1,313	1,351	1,389	1,427	1,465	1,503	1,541	1,579	1,617	1,655	1,693	1,731	1,769	1,807	1,845	1,883	1,921	1,959	1,997	11-1/2
1,116	1,155	1,194	1,233	1,272	1,311	1,350	1,389	1,428	1,467	1,506	1,545	1,584	1,623	1,662	1,701	1,740	1,779	1,818	1,857	1,896	1,935	1,974	2,013	2,052	12
1,148	1,188	1,228	1,268	1,308	1,348	1,388	1,428	1,468	1,508	1,548	1,588	1,628	1,668	1,708	1,748	1,788	1,828	1,868	1,908	1,948	1,988	2,028	2,068	2,108	12-1/2
1,179	1,220	1,261	1,302	1,343	1,384	1,425	1,466	1,507	1,548	1,589	1,630	1,671	1,712	1,753	1,794	1,835	1,876	1,917	1,958	1,999	2,040	2,081	2,122	2,163	13
1,211	1,253	1,295	1,337	1,379	1,421	1,463	1,505	1,547	1,589	1,631	1,673	1,715	1,757	1,799	1,841	1,883	1,925	1,967	2,009	2,051	2,093	2,135	2,177	2,219	13-1/2
1,242	1,285	1,328	1,371	1,414	1,457	1,500	1,543	1,586	1,629	1,672	1,715	1,758	1,801	1,844	1,887	1,930	1,973	2,016	2,059	2,102	2,145	2,188	2,231	2,274	14
1,274	1,318	1,362	1,406	1,450	1,494	1,538	1,582	1,626	1,670	1,714	1,758	1,802	1,846	1,890	1,934	1,978	2,022	2,066	2,110	2,154	2,198	2,242	2,286	2,330	14-1/2
1,305	1,350	1,395	1,440	1,485	1,530	1,575	1,620	1,665	1,710	1,755	1,800	1,845	1,890	1,935	1,980	2,025	2,070	2,115	2,160	2,205	2,250	2,295	2,340	2,385	15
1,338	1,415	1,462	1,509	1,556	1,603	1,650	1,697	1,744	1,791	1,838	1,885	1,932	1,979	2,026	2,073	2,120	2,167	2,214	2,261	2,308	2,355	2,402	2,449	2,496	16
1,431	1,480	1,529	1,578	1,627	1,676	1,725	1,774	1,823	1,872	1,921	1,970	2,019	2,068	2,117	2,166	2,215	2,264	2,313	2,362	2,411	2,460	2,509	2,558	2,607	17
1,494	1,545	1,596	1,647	1,698	1,749	1,800	1,851	1,902	1,953	2,004	2,055	2,106	2,157	2,208	2,259	2,310	2,361	2,412	2,463	2,514	2,565	2,616	2,667	2,718	18
1,557	1,610	1,663	1,716	1,769	1,822	1,875	1,928	1,981	2,034	2,087	2,140	2,193	2,246	2,299	2,352	2,405	2,458	2,511	2,564	2,617	2,670	2,723	2,776	2,829	19
1,620	1,675	1,730	1,785	1,840	1,895	1,950	2,005	2,060	2,115	2,170	2,225	2,280	2,335	2,390	2,445	2,500	2,555	2,610	2,665	2,720	2,775	2,830	2,885	2,940	20
1,683	1,740	1,797	1,854	1,911	1,968	2,025	2,082	2,139	2,196	2,253	2,310	2,367	2,424	2,481	2,538	2,595	2,652	2,709	2,766	2,823	2,880	2,937	2,994	3,051	21
1,746	1,805	1,864	1,923	1,982	2,041	2,100	2,159	2,218	2,277	2,336	2,395	2,454	2,513	2,572	2,631	2,690	2,749	2,808	2,867	2,926	2,985	3,044	3,103	3,162	22
1,809	1,870	1,931	1,992	2,053	2,114	2,175	2,236	2,297	2,358	2,419	2,480	2,541	2,602	2,663	2,724	2,785	2,846	2,907	2,968	3,029	3,090	3,151	3,212	3,273	23

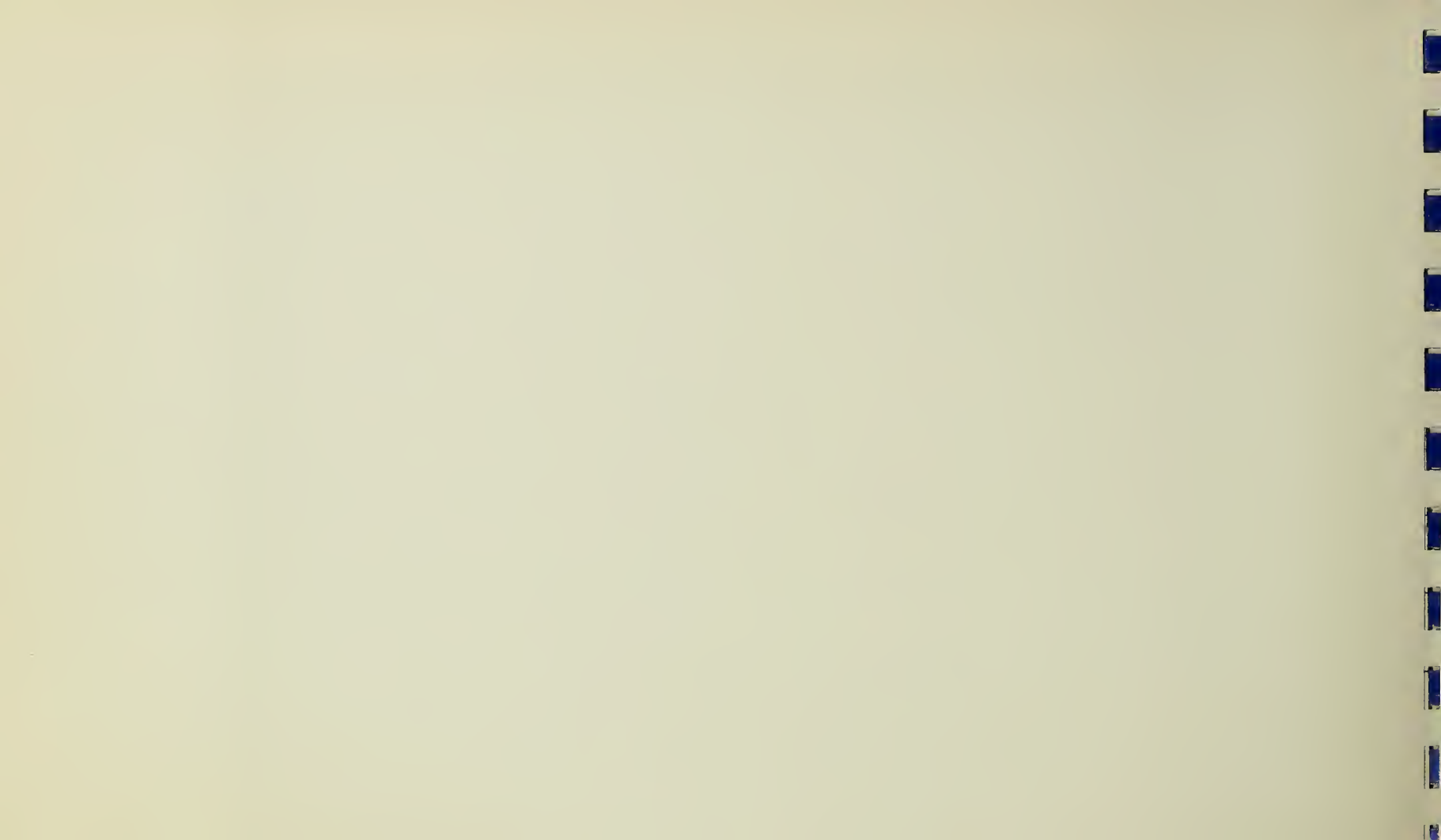


INCHES	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
24	1,872	1,935	1,998	2,061	2,124	2,187	2,250	2,313	2,376	2,439	2,502	2,565	2,628	2,691	2,754	2,817	2,880	2,943	3,006	3,069	3,132	3,195	3,258	3,321	3,384
25		2,000	2,065	2,130	2,195	2,260	2,325	2,390	2,455	2,520	2,585	2,650	2,715	2,780	2,845	2,910	2,975	3,040	3,105	3,170	3,235	3,300	3,365	3,430	3,495
26			2,132	2,199	2,266	2,333	2,400	2,467	2,534	2,601	2,668	2,735	2,802	2,869	2,936	3,003	3,070	3,137	3,204	3,271	3,338	3,405	3,472	3,539	3,606
27				2,268	2,337	2,406	2,475	2,544	2,613	2,682	2,751	2,820	2,889	2,958	3,027	3,096	3,165	3,234	3,303	3,372	3,441	3,510	3,579	3,648	3,717
28					2,408	2,479	2,550	2,621	2,692	2,763	2,834	2,905	2,976	3,047	3,118	3,189	3,260	3,331	3,402	3,473	3,544	3,615	3,686	3,757	3,828
29						2,552	2,625	2,698	2,771	2,844	2,917	2,990	3,063	3,136	3,209	3,282	3,355	3,428	3,501	3,574	3,647	3,720	3,793	3,866	3,939
30							2,700	2,775	2,850	2,925	3,000	3,075	3,150	3,225	3,300	3,375	3,450	3,525	3,600	3,675	3,750	3,825	3,900	3,975	4,050
31								2,852	2,929	3,006	3,083	3,160	3,237	3,314	3,391	3,468	3,545	3,622	3,699	3,776	3,853	3,930	4,007	4,084	4,161
32									3,008	3,087	3,166	3,245	3,324	3,403	3,482	3,561	3,640	3,719	3,798	3,877	3,956	4,035	4,114	4,193	4,272
33										3,168	3,249	3,330	3,411	3,492	3,573	3,654	3,735	3,816	3,897	3,978	4,059	4,140	4,221	4,302	4,383
34											3,332	3,415	3,498	3,581	3,664	3,747	3,830	3,913	3,996	4,079	4,162	4,245	4,328	4,411	4,494
35												3,500	3,585	3,670	3,755	3,840	3,925	4,010	4,095	4,180	4,265	4,350	4,435	4,520	4,605
36													3,672	3,759	3,846	3,933	4,020	4,107	4,194	4,281	4,368	4,455	4,542	4,629	4,716
37														3,848	3,937	4,026	4,115	4,204	4,293	4,382	4,471	4,560	4,649	4,738	4,827
38															4,028	4,119	4,210	4,301	4,392	4,483	4,574	4,665	4,756	4,847	4,938
39																4,212	4,305	4,398	4,491	4,584	4,677	4,770	4,863	4,956	5,049
40																	4,400	4,495	4,590	4,685	4,780	4,875	4,970	5,065	5,160
41																		4,592	4,689	4,786	4,883	4,980	5,077	5,174	5,271
42																			4,788	4,887	4,986	5,085	5,184	5,283	5,382
43																				4,988	5,089	5,190	5,291	5,392	5,493
44																					5,192	5,295	5,398	5,501	5,604
45																						5,400	5,505	5,610	5,715
46																							5,612	5,719	5,826
47																								5,828	5,937
																									6,049

INCHES	8	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24									
8	384.0	400.0	416.0	432.0	448.0	464.0	480.0	496.0	512.0	528.0	544.0	560.0	576.0	592.0	608.0	624.0	640.0	656.0	672.0	688.0	704.0	720.0	736.0	752.0	768.0	784.0	800.0	816.0	832.0	848.0	864.0	880.0	896.0
8-1/2		416.5	433.0	449.5	466.0	482.5	499.0	515.5	532.0	548.5	565.0	581.5	598.0	614.5	631.0	647.5	664.0	680.5	697.0	713.5	730.0	746.5	763.0	779.5	796.0	812.5	829.0	845.5	862.0	878.5	895.0	911.5	928.0
9			450.0	467.0	484.0	501.0	518.0	535.0	552.0	569.0	586.0	603.0	620.0	637.0	654.0	671.0	688.0	705.0	722.0	739.0	756.0	773.0	790.0	807.0	824.0	841.0	858.0	875.0	892.0	909.0	926.0	943.0	960.0
9-1/2				484.5	502.0	519.5	537.0	554.5	572.0	589.5	607.0	624.5	642.0	659.5	677.0	694.5	712.0	729.5	747.0	764.5	782.0	799.5	817.0	834.5	852.0	869.5	887.0	904.5	922.0	939.5	957.0	974.5	992.0
10					520.0	538.0	556.0	574.0	592.0	610.0	628.0	646.0	664.0	682.0	700.0	718.0	736.0	754.0	772.0	790.0	808.0	826.0	844.0	862.0	880.0	898.0	916.0	934.0	952.0	970.0	988.0	1,006.0	1,024.0
10-1/2						556.5	575.0	593.5	612.0	630.5	649.0	667.5	686.0	704.5	723.0	741.5	760.0	778.5	797.0	815.5	834.0	852.5	871.0	889.5	908.0	926.5	945.0	963.5	982.0	1,000.5	1,019.0	1,037.5	1,056.0
11							594.0	613.0	632.0	651.0	670.0	689.0	708.0	727.0	746.0	765.0	784.0	803.0	822.0	841.0	860.0	879.0	898.0	917.0	936.0	955.0	974.0	993.0	1,012.0	1,031.0	1,050.0	1,069.0	1,088.0
11-1/2								632.5	652.0	671.5	691.0	710.5	730.0	749.5	769.0	788.5	808.0	827.5	847.0	866.5	886.0	905.5	925.0	944.5	964.0	983.5	1,003.0	1,022.5	1,042.0	1,061.5	1,081.0	1,100.5	1,120.0
12									672.0	692.0	712.0	732.0	752.0	772.0	792.0	812.0	832.0	852.0	872.0	892.0	912.0	932.0	952.0	972.0	992.0	1,012.0	1,032.0	1,052.0	1,072.0	1,092.0	1,112.0	1,132.0	1,152.0
12-1/2										712.5	733.0	753.5	774.0	794.5	815.0	835.5	856.0	876.5	897.0	917.5	938.0	958.5	979.0	999.5	1,020.0	1,040.5	1,061.0	1,081.5	1,102.0	1,122.5	1,143.0	1,163.5	1,184.0
13											754.0	775.0	796.0	817.0	838.0	859.0	880.0	901.0	922.0	943.0	964.0	985.0	1,006.0	1,027.0	1,048.0	1,069.0	1,090.0	1,111.0	1,132.0	1,153.0	1,174.0	1,195.0	1,216.0
13-1/2												796.5	818.0	839.5	861.0	882.5	904.0	925.5	947.0	968.5	990.0	1,011.5	1,033.0	1,054.5	1,076.0	1,097.5	1,119.0	1,140.5	1,162.0	1,183.5	1,205.0	1,226.5	1,248.0
14													840.0	862.0	884.0	906.0	928.0	950.0	972.0	994.0	1,016.0	1,038.0	1,060.0	1,082.0	1,104.0	1,126.0	1,148.0	1,170.0	1,192.0	1,214.0	1,236.0	1,258.0	
14-1/2														884.5	907.0	929.5	952.0	974.5	997.0	1,019.5	1,042.0	1,064.5	1,087.0	1,109.5	1,132.0	1,154.5	1,177.0	1,199.5	1,222.0	1,244.5	1,267.0	1,289.5	
15															930.0	953.0	976.0	999.0	1,022.0	1,045.0	1,068.0	1,091.0	1,114.0	1,137.0	1,160.0	1,183.0	1,206.0	1,229.0	1,252.0	1,275.0	1,298.0	1,321.0	
16																1,024.0	1,048.0	1,072.0	1,096.0	1,120.0	1,144.0	1,168.0	1,192.0	1,216.0	1,240.0	1,264.0	1,288.0	1,312.0	1,336.0	1,360.0	1,384.0	1,408.0	
17																	1,122.0	1,147.0	1,172.0	1,197.0	1,222.0	1,247.0	1,272.0	1,297.0	1,322.0	1,347.0	1,372.0	1,397.0	1,422.0	1,447.0	1,472.0	1,497.0	
18																		1,224.0	1,250.0	1,276.0	1,302.0	1,328.0	1,354.0	1,380.0	1,406.0	1,432.0	1,458.0	1,484.0	1,510.0	1,536.0	1,562.0	1,588.0	
19																			1,330.0	1,357.0	1,384.0	1,411.0	1,438.0	1,465.0	1,492.0	1,519.0	1,546.0	1,573.0	1,600.0	1,627.0	1,654.0	1,681.0	
20																				1,440.0	1,468.0	1,496.0	1,524.0	1,552.0	1,580.0	1,608.0	1,636.0	1,664.0	1,692.0	1,720.0	1,748.0	1,776.0	
21																					1,554.0	1,583.0	1,612.0	1,641.0	1,670.0	1,699.0	1,728.0	1,757.0	1,786.0	1,815.0	1,844.0	1,873.0	
22																						1,672.0	1,702.0	1,732.0	1,762.0	1,792.0	1,822.0	1,852.0	1,882.0	1,912.0	1,942.0	1,972.0	
23																							1,794.0	1,825.0	1,856.0	1,887.0	1,918.0	1,949.0	1,980.0	2,011.0	2,042.0	2,073.0	
24																								1,920.0	1,952.0	1,984.0	2,016.0	2,048.0	2,080.0	2,112.0	2,144.0	2,176.0	



25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
928.0	960.0	992.0	1,024	1,056	1,088	1,120	1,152	1,184	1,216	1,248	1,280	1,312	1,344	1,376	1,408	1,440	1,472	1,504	1,536	1,568	1,600	1,532	1,664	8
961.0	994.0	1,027	1,060	1,093	1,126	1,159	1,192	1,225	1,258	1,291	1,324	1,357	1,390	1,423	1,456	1,489	1,522	1,555	1,588	1,621	1,654	1,687	1,720	8-1/2
994.0	1,028	1,062	1,096	1,130	1,164	1,198	1,232	1,266	1,300	1,334	1,368	1,402	1,436	1,470	1,504	1,538	1,572	1,606	1,640	1,674	1,708	1,742	1,776	9
1,027	1,062	1,097	1,132	1,167	1,202	1,237	1,272	1,307	1,342	1,377	1,412	1,447	1,482	1,517	1,552	1,587	1,622	1,657	1,692	1,727	1,762	1,797	1,832	9-1/2
1,060	1,096	1,132	1,168	1,204	1,240	1,276	1,312	1,348	1,384	1,420	1,456	1,492	1,528	1,564	1,600	1,636	1,672	1,708	1,744	1,780	1,816	1,852	1,888	10
1,093	1,130	1,167	1,204	1,241	1,278	1,315	1,352	1,389	1,426	1,463	1,500	1,537	1,574	1,611	1,648	1,685	1,722	1,759	1,796	1,833	1,870	1,907	1,944	10-1/2
1,126	1,164	1,202	1,240	1,278	1,316	1,354	1,392	1,430	1,468	1,506	1,544	1,582	1,620	1,658	1,696	1,734	1,772	1,810	1,848	1,886	1,924	1,962	2,000	11
1,159	1,198	1,237	1,276	1,315	1,354	1,393	1,432	1,471	1,510	1,549	1,588	1,627	1,666	1,705	1,744	1,783	1,822	1,861	1,900	1,939	1,978	2,017	2,056	11-1/2
1,192	1,232	1,272	1,312	1,352	1,392	1,432	1,472	1,512	1,552	1,592	1,632	1,672	1,712	1,752	1,792	1,832	1,872	1,912	1,952	1,992	2,032	2,072	2,112	12
1,225	1,266	1,307	1,348	1,389	1,430	1,471	1,512	1,553	1,594	1,635	1,676	1,717	1,758	1,799	1,840	1,881	1,922	1,963	2,004	2,045	2,086	2,127	2,168	12-1/2
1,258	1,300	1,342	1,384	1,426	1,468	1,510	1,552	1,594	1,636	1,678	1,720	1,762	1,804	1,846	1,888	1,930	1,972	2,014	2,056	2,098	2,140	2,182	2,224	13
1,291	1,334	1,377	1,420	1,463	1,506	1,549	1,592	1,635	1,678	1,721	1,764	1,807	1,850	1,893	1,936	1,979	2,022	2,065	2,108	2,151	2,194	2,237	2,280	13-1/2
1,324	1,368	1,412	1,456	1,500	1,544	1,588	1,632	1,676	1,720	1,764	1,808	1,852	1,896	1,940	1,984	2,028	2,072	2,116	2,160	2,204	2,248	2,292	2,336	14
1,357	1,402	1,447	1,492	1,537	1,582	1,627	1,672	1,717	1,762	1,807	1,852	1,897	1,942	1,987	2,032	2,077	2,122	2,167	2,212	2,257	2,302	2,347	2,392	14-1/2
1,390	1,436	1,482	1,528	1,574	1,620	1,666	1,712	1,758	1,804	1,850	1,896	1,942	1,988	2,034	2,080	2,126	2,172	2,218	2,264	2,310	2,356	2,402	2,448	15
1,456	1,504	1,552	1,600	1,648	1,696	1,744	1,792	1,840	1,888	1,936	1,984	2,032	2,080	2,128	2,176	2,224	2,272	2,320	2,368	2,416	2,464	2,512	2,560	16
1,522	1,572	1,622	1,672	1,722	1,772	1,822	1,872	1,922	1,972	2,022	2,072	2,122	2,172	2,222	2,272	2,322	2,372	2,422	2,472	2,522	2,572	2,622	2,672	17
1,588	1,640	1,692	1,744	1,796	1,848	1,900	1,952	2,004	2,056	2,108	2,160	2,212	2,264	2,316	2,368	2,420	2,472	2,524	2,576	2,628	2,680	2,732	2,784	18
1,654	1,708	1,762	1,816	1,870	1,924	1,978	2,032	2,086	2,140	2,194	2,248	2,302	2,356	2,410	2,464	2,518	2,572	2,626	2,680	2,734	2,788	2,842	2,896	19
1,720	1,776	1,832	1,888	1,944	2,000	2,056	2,112	2,168	2,224	2,280	2,336	2,392	2,448	2,504	2,560	2,616	2,672	2,728	2,784	2,840	2,896	2,952	3,008	20
1,786	1,844	1,902	1,960	2,018	2,076	2,134	2,192	2,250	2,308	2,366	2,424	2,482	2,540	2,598	2,656	2,714	2,772	2,830	2,888	2,946	3,004	3,062	3,120	21
1,852	1,912	1,972	2,032	2,092	2,152	2,212	2,272	2,332	2,392	2,452	2,512	2,572	2,632	2,692	2,752	2,812	2,872	2,932	2,992	3,052	3,112	3,172	3,232	22
1,918	1,980	2,042	2,104	2,166	2,228	2,290	2,352	2,414	2,476	2,538	2,600	2,662	2,724	2,786	2,848	2,910	2,972	3,034	3,096	3,158	3,220	3,282	3,344	23
1,984	2,048	2,112	2,176	2,240	2,304	2,368	2,432	2,496	2,560	2,624	2,688	2,752	2,816	2,880	2,944	3,008	3,072	3,136	3,200	3,264	3,328	3,392	3,456	24



INCHES	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
25	2,050	2,116	2,182	2,248	2,314	2,380	2,446	2,512	2,578	2,644	2,710	2,776	2,842	2,908	2,974	3,040	3,106	3,172	3,238	3,304	3,370	3,436	3,502	3,568
26		2,184	2,252	2,320	2,388	2,456	2,524	2,592	2,660	2,728	2,796	2,864	2,932	3,000	3,068	3,136	3,204	3,272	3,340	3,408	3,476	3,544	3,612	3,680
27			2,322	2,392	2,462	2,532	2,602	2,672	2,742	2,812	2,882	2,952	3,022	3,092	3,162	3,232	3,302	3,372	3,442	3,512	3,582	3,652	3,722	3,792
28				2,464	2,536	2,608	2,680	2,752	2,824	2,896	2,968	3,040	3,112	3,184	3,256	3,328	3,400	3,472	3,544	3,616	3,688	3,760	3,832	3,904
29					2,610	2,684	2,758	2,832	2,906	2,980	3,054	3,128	3,202	3,276	3,350	3,424	3,498	3,572	3,646	3,720	3,794	3,868	3,942	4,016
30						2,760	2,836	2,912	2,988	3,064	3,140	3,216	3,292	3,368	3,444	3,520	3,596	3,672	3,748	3,824	3,900	3,976	4,052	4,128
31							2,914	2,992	3,070	3,148	3,226	3,304	3,382	3,460	3,538	3,616	3,694	3,772	3,850	3,928	4,006	4,084	4,162	4,240
32								3,072	3,152	3,232	3,312	3,392	3,472	3,552	3,632	3,712	3,792	3,872	3,952	4,032	4,112	4,192	4,272	4,352
33									3,234	3,316	3,398	3,480	3,562	3,644	3,726	3,808	3,890	3,972	4,054	4,136	4,218	4,300	4,382	4,464
34										3,400	3,484	3,568	3,652	3,736	3,820	3,904	3,988	4,072	4,156	4,240	4,324	4,408	4,492	4,576
35											3,570	3,656	3,742	3,828	3,914	4,000	4,086	4,172	4,258	4,344	4,430	4,516	4,602	4,688
36												3,744	3,832	3,920	4,008	4,096	4,184	4,272	4,360	4,448	4,536	4,624	4,712	4,800
37													3,922	4,012	4,102	4,192	4,282	4,372	4,462	4,552	4,642	4,732	4,822	4,912
38														4,104	4,196	4,288	4,380	4,472	4,564	4,656	4,748	4,840	4,932	5,024
39															4,290	4,384	4,478	4,572	4,666	4,760	4,854	4,948	5,042	5,136
40																4,480	4,576	4,672	4,768	4,864	4,960	5,056	5,152	5,248
41																	4,674	4,772	4,870	4,968	5,066	5,164	5,262	5,360
42																		4,872	4,972	5,072	5,172	5,272	5,372	5,472
43																			5,074	5,176	5,278	5,380	5,482	5,584
44																				5,280	5,384	5,488	5,592	5,696
45																					5,490	5,596	5,702	5,808
46																						5,704	5,812	5,920
47																							5,922	6,032
48																								6,144

INCHES	8-1/2	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24
8-1/2	433.5	450.5	467.5	484.5	501.5	518.5	535.5	552.5	569.5	586.5	603.5	620.5	637.5	654.5	683.5	722.5	756.5	790.5	824.5	858.5	892.5	926.5	960.5
9		463.0	485.5	503.0	520.5	538.0	555.5	573.0	590.5	608.0	625.5	643.0	660.5	678.0	713.0	748.0	783.0	818.0	853.0	888.0	923.0	958.0	993.0
9-1/2			503.5	521.5	539.5	557.5	575.5	593.5	611.5	629.5	647.5	665.5	683.5	701.5	737.5	773.5	809.5	845.5	881.5	917.5	953.5	989.5	1,026
10				540.0	558.5	577.0	595.5	614.0	632.5	651.0	669.5	688.0	706.5	725.0	762.0	799.0	836.0	873.0	910.0	947.0	984.0	1,021	1,058
10-1/2					577.5	596.5	615.5	634.5	653.5	672.5	691.5	710.5	729.5	748.5	786.5	824.5	862.5	900.5	938.5	976.5	1,015	1,053	1,091
11						616.0	635.5	655.0	674.5	694.0	713.5	733.0	752.5	772.0	811.0	850.0	889.0	928.0	967.0	1,006	1,045	1,084	1,123
11-1/2							655.5	675.5	695.5	715.5	735.5	755.5	775.5	795.5	835.5	875.5	915.5	955.5	995.5	1,036	1,076	1,116	1,156
12								696.0	716.5	737.0	757.5	778.0	798.5	819.0	860.0	901.0	942.0	983.0	1,024	1,065	1,106	1,147	1,188
12-1/2									737.5	758.5	779.5	800.5	821.5	842.5	884.5	926.5	968.5	1,011	1,053	1,095	1,137	1,179	1,221
13										780.0	801.5	823.0	844.5	866.0	909.0	952.0	995.0	1,038	1,081	1,124	1,167	1,210	1,253
13-1/2											823.5	845.5	867.5	889.5	933.5	977.5	1,022	1,066	1,110	1,154	1,198	1,242	1,286
14												868.0	890.5	913.0	958.0	1,003	1,048	1,093	1,138	1,183	1,228	1,273	1,318
14-1/2													913.5	936.5	982.5	1,029	1,075	1,121	1,167	1,213	1,259	1,305	1,351
15														960.0	1,007	1,054	1,101	1,148	1,195	1,242	1,289	1,336	1,383
16															1,056	1,105	1,154	1,203	1,252	1,301	1,350	1,399	1,448
17																1,156	1,207	1,258	1,309	1,360	1,411	1,462	1,513
18																	1,260	1,313	1,366	1,419	1,472	1,525	1,578
19																		1,368	1,423	1,478	1,533	1,588	1,643
20																			1,480	1,537	1,594	1,651	1,708
21																				1,596	1,655	1,714	1,773
22																					1,716	1,777	1,838
23																						1,840	1,903
24																							1,968



25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
20 994.5	1,029	1,063	1,097	1,131	1,165	1,199	1,233	1,267	1,301	1,335	1,369	1,403	1,437	1,471	1,505	1,539	1,573	1,607	1,641	1,675	1,709	1,743	1,777	8-1/2
1,028	1,063	1,098	1,133	1,168	1,203	1,238	1,273	1,308	1,343	1,378	1,413	1,448	1,483	1,518	1,553	1,588	1,623	1,658	1,693	1,728	1,763	1,798	1,833	9
1,062	1,098	1,134	1,170	1,206	1,242	1,278	1,314	1,350	1,386	1,422	1,458	1,494	1,530	1,566	1,602	1,638	1,674	1,710	1,746	1,782	1,818	1,854	1,890	9-1/2
1,095	1,132	1,169	1,206	1,243	1,280	1,317	1,354	1,391	1,428	1,465	1,502	1,539	1,576	1,613	1,650	1,687	1,724	1,761	1,798	1,835	1,872	1,909	1,946	10
1,129	1,167	1,205	1,243	1,281	1,319	1,357	1,395	1,433	1,471	1,509	1,547	1,585	1,623	1,661	1,699	1,737	1,775	1,813	1,851	1,889	1,927	1,965	2,003	10-1/2
1,162	1,201	1,240	1,279	1,318	1,357	1,396	1,435	1,474	1,513	1,552	1,591	1,630	1,669	1,708	1,747	1,786	1,825	1,864	1,903	1,942	1,981	2,020	2,059	11
1,196	1,236	1,276	1,316	1,356	1,396	1,436	1,476	1,516	1,556	1,596	1,636	1,676	1,716	1,756	1,796	1,836	1,876	1,916	1,956	1,996	2,036	2,076	2,116	11-1/2
1,229	1,270	1,311	1,352	1,393	1,434	1,475	1,516	1,557	1,598	1,639	1,680	1,721	1,762	1,803	1,844	1,885	1,926	1,967	2,008	2,049	2,090	2,131	2,172	12
1,263	1,305	1,347	1,389	1,431	1,473	1,515	1,557	1,599	1,641	1,683	1,725	1,767	1,809	1,851	1,893	1,935	1,977	2,019	2,061	2,103	2,145	2,187	2,229	12-1/2
1,296	1,339	1,382	1,425	1,468	1,511	1,554	1,597	1,640	1,683	1,726	1,769	1,812	1,855	1,898	1,941	1,984	2,027	2,070	2,113	2,156	2,199	2,242	2,285	13
1,330	1,374	1,418	1,462	1,506	1,550	1,594	1,638	1,682	1,726	1,770	1,814	1,858	1,902	1,946	1,990	2,034	2,078	2,122	2,166	2,210	2,254	2,298	2,342	13-1/2
1,363	1,408	1,453	1,498	1,543	1,588	1,633	1,678	1,723	1,768	1,813	1,858	1,903	1,948	1,993	2,038	2,083	2,128	2,173	2,218	2,263	2,308	2,353	2,398	14
1,397	1,443	1,489	1,535	1,581	1,627	1,673	1,719	1,765	1,811	1,857	1,903	1,949	1,995	2,041	2,087	2,133	2,179	2,225	2,271	2,317	2,363	2,409	2,455	14-1/2
1,430	1,477	1,524	1,571	1,618	1,665	1,712	1,759	1,806	1,853	1,900	1,947	1,994	2,041	2,088	2,135	2,182	2,229	2,276	2,323	2,370	2,417	2,464	2,511	15
1,467	1,516	1,565	1,614	1,663	1,712	1,761	1,810	1,859	1,908	1,957	2,006	2,055	2,104	2,153	2,202	2,251	2,300	2,349	2,398	2,447	2,496	2,545	2,594	16
1,504	1,554	1,604	1,654	1,704	1,754	1,804	1,854	1,904	1,954	2,004	2,054	2,104	2,154	2,204	2,254	2,304	2,354	2,404	2,454	2,504	2,554	2,604	2,654	17
1,541	1,592	1,643	1,694	1,745	1,796	1,847	1,898	1,949	2,000	2,051	2,102	2,153	2,204	2,255	2,306	2,357	2,408	2,459	2,510	2,561	2,612	2,663	2,714	18
1,578	1,630	1,682	1,734	1,786	1,838	1,890	1,942	1,994	2,046	2,098	2,150	2,202	2,254	2,306	2,358	2,410	2,462	2,514	2,566	2,618	2,670	2,722	2,774	19
1,615	1,668	1,721	1,774	1,827	1,880	1,933	1,986	2,039	2,092	2,145	2,198	2,251	2,304	2,357	2,410	2,463	2,516	2,569	2,622	2,675	2,728	2,781	2,834	20
1,652	1,706	1,760	1,814	1,868	1,922	1,976	2,030	2,084	2,138	2,192	2,246	2,300	2,354	2,408	2,462	2,516	2,570	2,624	2,678	2,732	2,786	2,840	2,894	21
1,689	1,744	1,799	1,854	1,909	1,964	2,019	2,074	2,129	2,184	2,239	2,294	2,349	2,404	2,459	2,514	2,569	2,624	2,679	2,734	2,789	2,844	2,899	2,954	22
1,726	1,782	1,838	1,894	1,950	2,006	2,062	2,118	2,174	2,230	2,286	2,342	2,398	2,454	2,510	2,566	2,622	2,678	2,734	2,790	2,846	2,902	2,958	3,014	23
1,763	1,820	1,877	1,934	1,991	2,048	2,105	2,162	2,219	2,276	2,333	2,390	2,447	2,504	2,561	2,618	2,675	2,732	2,789	2,846	2,903	2,960	3,017	3,074	24



INCHES	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
25	2,100	2,167	2,234	2,301	2,368	2,435	2,502	2,569	2,636	2,703	2,770	2,837	2,904	2,971	3,038	3,105	3,172	3,239	3,306	3,373	3,440	3,507	3,574	3,641
26		2,236	2,305	2,374	2,443	2,512	2,581	2,650	2,719	2,788	2,857	2,926	2,995	3,064	3,133	3,202	3,271	3,340	3,409	3,478	3,547	3,616	3,685	3,754
27			2,376	2,447	2,518	2,589	2,660	2,731	2,802	2,873	2,944	3,015	3,086	3,157	3,228	3,299	3,370	3,441	3,512	3,583	3,654	3,725	3,796	3,867
28				2,520	2,593	2,666	2,739	2,812	2,885	2,958	3,031	3,104	3,177	3,250	3,323	3,396	3,469	3,542	3,615	3,688	3,761	3,834	3,907	3,980
29					2,668	2,743	2,818	2,893	2,968	3,043	3,118	3,193	3,268	3,343	3,418	3,493	3,568	3,643	3,718	3,793	3,868	3,943	4,018	4,093
30						2,820	2,897	2,974	3,051	3,128	3,205	3,282	3,359	3,436	3,513	3,590	3,667	3,744	3,821	3,898	3,975	4,052	4,129	4,206
31							2,976	3,055	3,134	3,213	3,292	3,371	3,450	3,529	3,608	3,687	3,766	3,845	3,924	4,003	4,082	4,161	4,240	4,319
32								3,136	3,217	3,298	3,379	3,460	3,541	3,622	3,703	3,784	3,865	3,946	4,027	4,108	4,189	4,270	4,351	4,432
33									3,300	3,383	3,466	3,549	3,632	3,715	3,798	3,881	3,964	4,047	4,130	4,213	4,296	4,379	4,462	4,545
34										3,468	3,553	3,638	3,723	3,808	3,893	3,978	4,063	4,148	4,233	4,318	4,403	4,488	4,573	4,658
35											3,640	3,727	3,814	3,901	3,988	4,075	4,162	4,249	4,336	4,423	4,510	4,597	4,684	4,771
36												3,816	3,905	3,994	4,083	4,172	4,261	4,350	4,439	4,528	4,617	4,706	4,795	4,884
37													3,996	4,087	4,178	4,269	4,360	4,451	4,542	4,633	4,724	4,815	4,906	4,997
38														4,180	4,273	4,366	4,459	4,552	4,645	4,738	4,831	4,924	5,017	5,110
39															4,368	4,463	4,558	4,653	4,748	4,843	4,938	5,033	5,128	5,223
40																4,560	4,657	4,754	4,851	4,948	5,045	5,142	5,239	5,336
41																	4,756	4,855	4,954	5,053	5,152	5,251	5,350	5,449
42																		4,956	5,057	5,158	5,259	5,360	5,461	5,562
43																			5,160	5,263	5,366	5,469	5,572	5,675
44																				5,368	5,473	5,578	5,683	5,788
45																					5,580	5,687	5,794	5,901
46																						5,796	5,905	6,014
47																							6,016	6,127
48																								6,240

INCHES	9	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25
9	456.0	504.0	522.0	540.0	558.0	576.0	594.0	612.0	630.0	648.0	666.0	684.0	702.0	738.0	774.0	810.0	846.0	882.0	918.0	954.0	990.0	1,026	1,062
9-1/2		522.5	541.0	559.5	578.0	596.5	615.0	633.5	652.0	670.5	689.0	707.5	726.0	763.0	800.0	837.0	874.0	911.0	948.0	985.0	1,022	1,059	1,096
10			560.0	579.0	598.0	617.0	636.0	655.0	674.0	693.0	712.0	731.0	750.0	788.0	826.0	864.0	902.0	940.0	978.0	1,016	1,054	1,092	1,130
10-1/2				598.5	618.0	637.5	657.0	676.5	696.0	715.5	735.0	754.5	774.0	813.0	852.0	891.0	930.0	969.0	1,008	1,047	1,086	1,125	1,164
11					638.0	658.0	678.0	698.0	718.0	738.0	758.0	778.0	798.0	838.0	878.0	918.0	958.0	998.0	1,038	1,078	1,118	1,158	1,198
11-1/2						678.5	699.0	719.5	740.0	760.5	781.0	801.5	822.0	863.0	904.0	945.0	986.0	1,027	1,068	1,109	1,150	1,191	1,232
12							720.0	741.0	762.0	783.0	804.0	825.0	846.0	888.0	930.0	972.0	1,014	1,056	1,098	1,140	1,182	1,224	1,266
12-1/2								762.5	784.0	805.5	827.0	848.5	870.0	913.0	956.0	999.0	1,042	1,085	1,128	1,171	1,214	1,257	1,300
13									806.0	828.0	850.0	872.0	894.0	938.0	982.0	1,026	1,070	1,114	1,158	1,202	1,246	1,290	1,334
13-1/2										850.5	873.0	895.5	918.0	963.0	1,008	1,053	1,098	1,143	1,188	1,233	1,278	1,323	1,368
14											896.0	919.0	942.0	988.0	1,034	1,080	1,126	1,172	1,218	1,264	1,310	1,356	1,402
14-1/2												942.5	966.0	1,013	1,060	1,107	1,154	1,201	1,248	1,295	1,342	1,389	1,436
15													990.0	1,038	1,086	1,134	1,182	1,230	1,278	1,326	1,374	1,422	1,470
16														1,088	1,138	1,188	1,238	1,288	1,338	1,388	1,438	1,488	1,538
17															1,190	1,242	1,294	1,346	1,398	1,450	1,502	1,554	1,606
18																1,296	1,350	1,404	1,458	1,512	1,566	1,620	1,674
19																	1,406	1,462	1,518	1,574	1,630	1,686	1,742
20																		1,520	1,578	1,636	1,694	1,752	1,810
21																			1,638	1,698	1,758	1,818	1,878
22																				1,760	1,822	1,884	1,946
23																					1,886	1,950	2,014
24																						2,016	2,082
25																							2,150

26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	44	42	43	44	45	46	47	48	INCHES
1,098	1,134	1,170	1,206	1,242	1,278	1,314	1,350	1,386	1,422	1,458	1,494	1,530	1,566	1,602	1,638	1,674	1,710	1,746	1,782	1,818	1,854	1,890	9
1,133	1,170	1,207	1,244	1,281	1,318	1,355	1,392	1,429	1,466	1,503	1,540	1,577	1,614	1,651	1,688	1,725	1,762	1,799	1,836	1,873	1,910	1,947	9-1/2
1,168	1,206	1,244	1,282	1,320	1,358	1,396	1,434	1,472	1,510	1,548	1,586	1,624	1,662	1,700	1,738	1,776	1,814	1,852	1,890	1,928	1,966	2,004	10
1,203	1,242	1,281	1,320	1,359	1,398	1,437	1,476	1,515	1,554	1,593	1,632	1,671	1,710	1,749	1,788	1,827	1,866	1,905	1,944	1,983	2,022	2,061	10-1/2
1,238	1,278	1,318	1,358	1,398	1,438	1,478	1,518	1,558	1,598	1,638	1,678	1,718	1,758	1,798	1,838	1,878	1,918	1,958	1,998	2,038	2,078	2,118	11
1,273	1,314	1,355	1,396	1,437	1,478	1,519	1,560	1,601	1,642	1,683	1,724	1,765	1,806	1,847	1,888	1,929	1,970	2,011	2,052	2,093	2,134	2,175	11-1/2
1,308	1,350	1,392	1,434	1,476	1,518	1,560	1,602	1,644	1,686	1,728	1,770	1,812	1,854	1,896	1,938	1,980	2,022	2,064	2,106	2,148	2,190	2,232	12
1,343	1,386	1,429	1,472	1,515	1,558	1,601	1,644	1,687	1,730	1,773	1,816	1,859	1,902	1,945	1,988	2,031	2,074	2,117	2,160	2,203	2,246	2,289	12-1/2
1,378	1,422	1,466	1,510	1,554	1,598	1,642	1,686	1,730	1,774	1,818	1,862	1,906	1,950	1,994	2,038	2,082	2,126	2,170	2,214	2,258	2,302	2,346	13
1,413	1,458	1,503	1,548	1,593	1,638	1,683	1,728	1,773	1,818	1,863	1,908	1,953	1,998	2,043	2,088	2,133	2,178	2,223	2,268	2,313	2,358	2,403	13-1/2
1,448	1,494	1,540	1,586	1,632	1,678	1,724	1,770	1,816	1,862	1,908	1,954	2,000	2,046	2,092	2,138	2,184	2,230	2,276	2,322	2,368	2,414	2,460	14
1,483	1,530	1,577	1,624	1,671	1,718	1,765	1,812	1,859	1,906	1,953	2,000	2,047	2,094	2,141	2,188	2,235	2,282	2,329	2,376	2,423	2,470	2,517	14-1/2
1,518	1,566	1,614	1,662	1,710	1,758	1,806	1,854	1,902	1,950	1,998	2,046	2,094	2,142	2,190	2,238	2,286	2,334	2,382	2,430	2,478	2,526	2,574	15
1,553	1,603	1,653	1,703	1,753	1,803	1,853	1,903	1,953	2,003	2,053	2,103	2,153	2,203	2,253	2,303	2,353	2,403	2,453	2,503	2,553	2,603	2,653	16
1,588	1,639	1,690	1,741	1,792	1,843	1,894	1,945	1,996	2,047	2,098	2,149	2,200	2,251	2,302	2,353	2,404	2,455	2,506	2,557	2,608	2,659	2,710	17
1,623	1,675	1,727	1,779	1,831	1,883	1,935	1,987	2,039	2,091	2,143	2,195	2,247	2,299	2,351	2,403	2,455	2,507	2,559	2,611	2,663	2,715	2,767	18
1,658	1,711	1,764	1,817	1,870	1,923	1,976	2,029	2,082	2,135	2,188	2,241	2,294	2,347	2,400	2,453	2,506	2,559	2,612	2,665	2,718	2,771	2,824	19
1,693	1,747	1,801	1,855	1,909	1,963	2,017	2,071	2,125	2,179	2,233	2,287	2,341	2,395	2,449	2,503	2,557	2,611	2,665	2,719	2,773	2,827	2,881	20
1,728	1,783	1,838	1,893	1,948	2,003	2,058	2,113	2,168	2,223	2,278	2,333	2,388	2,443	2,498	2,553	2,608	2,663	2,718	2,773	2,828	2,883	2,938	21
1,763	1,819	1,875	1,931	1,987	2,043	2,099	2,155	2,211	2,267	2,323	2,379	2,435	2,491	2,547	2,603	2,659	2,715	2,771	2,827	2,883	2,939	2,995	22
1,798	1,855	1,912	1,969	2,026	2,083	2,140	2,197	2,254	2,311	2,368	2,425	2,482	2,539	2,596	2,653	2,710	2,767	2,824	2,881	2,938	2,995	3,052	23
1,833	1,891	1,949	2,007	2,065	2,123	2,181	2,239	2,297	2,355	2,413	2,471	2,529	2,587	2,645	2,703	2,761	2,819	2,877	2,935	2,993	3,051	3,109	24
1,868	1,927	1,986	2,045	2,104	2,163	2,222	2,281	2,340	2,399	2,458	2,517	2,576	2,635	2,694	2,753	2,812	2,871	2,930	2,989	3,048	3,107	3,166	25
1,903	1,963	2,023	2,083	2,143	2,203	2,263	2,323	2,383	2,443	2,503	2,563	2,623	2,683	2,743	2,803	2,863	2,923	2,983	3,043	3,103	3,163	3,223	
1,938	1,999	2,060	2,121	2,182	2,243	2,304	2,365	2,426	2,487	2,548	2,609	2,670	2,731	2,792	2,853	2,914	2,975	3,036	3,097	3,158	3,219	3,280	
1,973	2,035	2,097	2,159	2,221	2,283	2,345	2,407	2,469	2,531	2,593	2,655	2,717	2,779	2,841	2,903	2,965	3,027	3,089	3,151	3,213	3,275	3,337	
2,008	2,071	2,134	2,197	2,260	2,323	2,386	2,449	2,512	2,575	2,638	2,701	2,764	2,827	2,890	2,953	3,016	3,079	3,142	3,205	3,268	3,331	3,394	
2,043	2,107	2,171	2,235	2,299	2,363	2,427	2,491	2,555	2,619	2,683	2,747	2,811	2,875	2,939	3,003	3,067	3,131	3,195	3,259	3,323	3,387	3,451	
2,078	2,143	2,208	2,273	2,338	2,403	2,468	2,533	2,598	2,663	2,728	2,793	2,858	2,923	2,988	3,053	3,118	3,183	3,248	3,313	3,378	3,443	3,508	
2,113	2,179	2,245	2,311	2,377	2,443	2,509	2,575	2,641	2,707	2,773	2,839	2,905	2,971	3,037	3,103	3,169	3,235	3,301	3,367	3,433	3,499	3,565	
2,148	2,215	2,282	2,349	2,416	2,483	2,550	2,617	2,684	2,751	2,818	2,885	2,952	3,019	3,086	3,153	3,220	3,287	3,354	3,421	3,488	3,555	3,622	
2,183	2,251	2,319	2,387	2,455	2,523	2,591	2,659	2,727	2,795	2,863	2,931	3,000	3,068	3,136	3,204	3,272	3,340	3,408	3,476	3,544	3,612	3,680	
2,218	2,286	2,354	2,422	2,490	2,558	2,626	2,694	2,762	2,830	2,898	2,966	3,034	3,102	3,170	3,238	3,306	3,374	3,442	3,510	3,578	3,646	3,714	

9" 9 1/2" 10" 10 1/2" 11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25"





INCHES	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
26	2,283	2,358	2,428	2,498	2,568	2,638	2,708	2,778	2,848	2,918	2,988	3,058	3,128	3,198	3,268	3,338	3,408	3,478	3,548	3,618	3,688	3,758	3,828
27		2,430	2,502	2,574	2,646	2,718	2,790	2,862	2,934	3,006	3,078	3,150	3,222	3,294	3,366	3,438	3,510	3,582	3,654	3,726	3,798	3,870	3,942
28			2,576	2,650	2,724	2,798	2,872	2,946	3,020	3,094	3,168	3,242	3,316	3,390	3,464	3,538	3,612	3,686	3,760	3,834	3,908	3,982	4,056
29				2,726	2,802	2,878	2,954	3,030	3,106	3,182	3,258	3,334	3,410	3,486	3,562	3,638	3,714	3,790	3,866	3,942	4,018	4,094	4,170
30					2,880	2,958	3,036	3,114	3,192	3,270	3,348	3,426	3,504	3,582	3,660	3,738	3,816	3,894	3,972	4,050	4,128	4,206	4,284
31						3,038	3,118	3,198	3,278	3,358	3,438	3,518	3,598	3,678	3,758	3,838	3,918	3,998	4,078	4,158	4,238	4,318	4,398
32							3,200	3,282	3,364	3,446	3,528	3,610	3,692	3,774	3,856	3,938	4,020	4,102	4,184	4,266	4,348	4,430	4,512
33								3,366	3,450	3,534	3,618	3,702	3,786	3,870	3,954	4,038	4,122	4,206	4,290	4,374	4,458	4,542	4,626
34									3,536	3,622	3,708	3,794	3,880	3,966	4,052	4,138	4,224	4,310	4,396	4,482	4,568	4,654	4,740
35										3,710	3,798	3,886	3,974	4,062	4,150	4,238	4,326	4,414	4,502	4,590	4,678	4,766	4,854
36											3,888	3,978	4,068	4,158	4,248	4,338	4,428	4,518	4,608	4,698	4,788	4,878	4,968
37												4,070	4,162	4,254	4,346	4,438	4,530	4,622	4,714	4,806	4,898	4,990	5,082
38													4,256	4,350	4,444	4,538	4,632	4,726	4,820	4,914	5,008	5,102	5,196
39														4,446	4,542	4,638	4,734	4,830	4,926	5,022	5,118	5,214	5,310
40															4,640	4,738	4,836	4,934	5,032	5,130	5,228	5,326	5,424
41																4,838	4,938	5,038	5,138	5,238	5,338	5,438	5,538
42																	5,040	5,142	5,244	5,346	5,448	5,550	5,652
43																		5,246	5,350	5,454	5,558	5,662	5,766
44																			5,456	5,562	5,668	5,774	5,880
45																				5,670	5,778	5,886	5,994
46																					5,888	5,998	6,108
47																						6,110	6,222
48																							6,336

$9\frac{1}{2}$ "     $10$ "     $10\frac{1}{2}$ "     $11$ "     $11\frac{1}{2}$ "     $12$ "     $12\frac{1}{2}$ "     $13$ "     $13\frac{1}{2}$ "     $14$ "     $14\frac{1}{2}$ "     $15$ "     $16$ "     $17$ "     $18$ "     $19$ "     $20$ "     $21$ "     $22$ "     $23$ "     $24$ "     $25$ "

INCHES	9-1/2	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25
9-1/2	541.5	560.5	579.5	598.5	617.5	636.5	655.5	674.5	693.5	712.5	731.5	750.5	788.5	826.5	864.5	902.5	940.5	978.5	1,017	1,055	1,093	1,131
10		530.0	599.5	619.0	638.5	658.0	677.5	697.0	716.5	736.0	755.5	775.0	814.0	853.0	892.0	931.0	970.0	1,009	1,048	1,087	1,126	1,165
10-1/2			619.5	639.5	659.5	679.5	699.5	719.5	739.5	759.5	779.5	799.5	839.5	879.5	919.5	959.5	999.5	1,040	1,080	1,120	1,160	1,200
11				660.0	680.5	701.0	721.5	742.0	762.5	783.0	803.5	824.0	865.0	906.0	947.0	988.0	1,029	1,070	1,111	1,152	1,193	1,234
11-1/2					701.5	722.5	743.5	764.5	785.5	806.5	827.5	848.5	890.5	932.5	974.5	1,017	1,059	1,101	1,143	1,185	1,227	1,269
12						744.0	765.5	787.0	808.5	830.0	851.5	873.0	916.0	959.0	1,002	1,045	1,088	1,131	1,174	1,217	1,260	1,303
12-1/2							787.5	809.5	831.5	853.5	875.5	897.5	941.5	985.5	1,030	1,074	1,118	1,162	1,206	1,250	1,294	1,338
13								832.0	854.5	877.0	899.5	922.0	967.0	1,012	1,057	1,102	1,147	1,192	1,237	1,282	1,327	1,372
13-1/2									877.5	900.5	923.5	946.5	992.5	1,039	1,085	1,131	1,177	1,223	1,269	1,315	1,361	1,407
14										924.0	947.5	971.0	1,018	1,065	1,112	1,159	1,206	1,253	1,300	1,347	1,394	1,441
14-1/2											971.5	995.5	1,044	1,092	1,140	1,188	1,236	1,284	1,332	1,380	1,428	1,476
15												1,020	1,069	1,118	1,167	1,216	1,265	1,314	1,363	1,412	1,461	1,510
16													1,120	1,171	1,222	1,273	1,324	1,375	1,426	1,477	1,528	1,579
17														1,224	1,277	1,330	1,383	1,436	1,489	1,542	1,595	1,648
18															1,332	1,387	1,442	1,497	1,552	1,607	1,662	1,717
19																1,444	1,501	1,558	1,615	1,672	1,729	1,786
20																	1,560	1,619	1,678	1,737	1,796	1,855
21																		1,680	1,741	1,802	1,863	1,924
22																			1,804	1,867	1,930	1,993
23																				1,932	1,997	2,062
24																					2,064	2,131
25																						2,200

25	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
1,169	1,207	1,245	1,283	1,321	1,359	1,397	1,435	1,473	1,511	1,549	1,587	1,625	1,663	1,701	1,739	1,777	1,815	1,853	1,891	1,929	1,967	2,005	9-1/2
1,204	1,243	1,282	1,321	1,360	1,399	1,438	1,477	1,516	1,555	1,594	1,633	1,672	1,711	1,750	1,789	1,828	1,867	1,906	1,945	1,984	2,023	2,062	10
1,240	1,280	1,320	1,360	1,400	1,440	1,480	1,520	1,560	1,600	1,640	1,680	1,720	1,760	1,800	1,840	1,880	1,920	1,960	2,000	2,040	2,080	2,120	10-1/2
1,275	1,316	1,357	1,398	1,439	1,480	1,521	1,562	1,603	1,644	1,685	1,726	1,767	1,808	1,849	1,890	1,931	1,972	2,013	2,054	2,095	2,136	2,177	11
1,311	1,353	1,395	1,437	1,479	1,521	1,563	1,605	1,647	1,689	1,731	1,773	1,815	1,857	1,899	1,941	1,983	2,025	2,067	2,109	2,151	2,193	2,235	11-1/2
1,346	1,389	1,432	1,475	1,518	1,561	1,604	1,647	1,690	1,733	1,776	1,819	1,862	1,905	1,948	1,991	2,034	2,077	2,120	2,163	2,206	2,249	2,292	12
1,382	1,426	1,470	1,514	1,558	1,602	1,646	1,690	1,734	1,778	1,822	1,866	1,910	1,954	1,998	2,042	2,086	2,130	2,174	2,218	2,262	2,306	2,350	12-1/2
1,417	1,462	1,507	1,552	1,597	1,642	1,687	1,732	1,777	1,822	1,867	1,912	1,957	2,002	2,047	2,092	2,137	2,182	2,227	2,272	2,317	2,362	2,407	13
1,453	1,499	1,545	1,591	1,637	1,683	1,729	1,775	1,821	1,867	1,913	1,959	2,005	2,051	2,097	2,143	2,189	2,235	2,281	2,327	2,373	2,419	2,465	13-1/2
1,488	1,535	1,582	1,629	1,676	1,723	1,770	1,817	1,864	1,911	1,958	2,005	2,052	2,099	2,146	2,193	2,240	2,287	2,334	2,381	2,428	2,475	2,522	14
1,524	1,572	1,620	1,668	1,716	1,764	1,812	1,860	1,908	1,956	2,004	2,052	2,100	2,148	2,196	2,244	2,292	2,340	2,388	2,436	2,484	2,532	2,580	14-1/2
1,559	1,608	1,657	1,706	1,755	1,804	1,853	1,902	1,951	2,000	2,049	2,098	2,147	2,196	2,245	2,294	2,343	2,392	2,441	2,490	2,539	2,588	2,637	15
1,593	1,643	1,692	1,742	1,791	1,840	1,889	1,938	1,987	2,036	2,085	2,134	2,183	2,232	2,281	2,330	2,379	2,428	2,477	2,526	2,575	2,624	2,673	16
1,627	1,677	1,726	1,775	1,824	1,873	1,922	1,971	2,020	2,069	2,118	2,167	2,216	2,265	2,314	2,363	2,412	2,461	2,510	2,559	2,608	2,657	2,706	17
1,661	1,711	1,760	1,809	1,858	1,907	1,956	2,005	2,054	2,103	2,152	2,201	2,250	2,299	2,348	2,397	2,446	2,495	2,544	2,593	2,642	2,691	2,740	18
1,695	1,745	1,794	1,843	1,892	1,941	1,990	2,039	2,088	2,137	2,186	2,235	2,284	2,333	2,382	2,431	2,480	2,529	2,578	2,627	2,676	2,725	2,774	19
1,729	1,779	1,828	1,877	1,926	1,975	2,024	2,073	2,122	2,171	2,220	2,269	2,318	2,367	2,416	2,465	2,514	2,563	2,612	2,661	2,710	2,759	2,808	20
1,763	1,813	1,862	1,911	1,960	2,009	2,058	2,107	2,156	2,205	2,254	2,303	2,352	2,401	2,450	2,499	2,548	2,597	2,646	2,695	2,744	2,793	2,842	21
1,797	1,847	1,896	1,945	1,994	2,043	2,092	2,141	2,190	2,239	2,288	2,337	2,386	2,435	2,484	2,533	2,582	2,631	2,680	2,729	2,778	2,827	2,876	22
1,831	1,881	1,930	1,979	2,028	2,077	2,126	2,175	2,224	2,273	2,322	2,371	2,420	2,469	2,518	2,567	2,616	2,665	2,714	2,763	2,812	2,861	2,910	23
1,865	1,915	1,964	2,013	2,062	2,111	2,160	2,209	2,258	2,307	2,356	2,405	2,454	2,503	2,552	2,601	2,650	2,699	2,748	2,797	2,846	2,895	2,944	24
1,899	1,949	1,998	2,047	2,096	2,145	2,194	2,243	2,292	2,341	2,390	2,439	2,488	2,537	2,586	2,635	2,684	2,733	2,782	2,831	2,880	2,929	2,978	25
1,933	1,983	2,032	2,081	2,130	2,179	2,228	2,277	2,326	2,375	2,424	2,473	2,522	2,571	2,620	2,669	2,718	2,767	2,816	2,865	2,914	2,963	3,012	
1,967	2,017	2,066	2,115	2,164	2,213	2,262	2,311	2,360	2,409	2,458	2,507	2,556	2,605	2,654	2,703	2,752	2,801	2,850	2,899	2,948	2,997	3,046	
2,001	2,051	2,100	2,149	2,198	2,247	2,296	2,345	2,394	2,443	2,492	2,541	2,590	2,639	2,688	2,737	2,786	2,835	2,884	2,933	2,982	3,031	3,080	
2,035	2,085	2,134	2,183	2,232	2,281	2,330	2,379	2,428	2,477	2,526	2,575	2,624	2,673	2,722	2,771	2,820	2,869	2,918	2,967	3,016	3,065	3,114	
2,069	2,119	2,168	2,217	2,266	2,315	2,364	2,413	2,462	2,511	2,560	2,609	2,658	2,707	2,756	2,805	2,854	2,903	2,952	3,001	3,050	3,099	3,148	
2,103	2,153	2,202	2,251	2,300	2,349	2,398	2,447	2,496	2,545	2,594	2,643	2,692	2,741	2,790	2,839	2,888	2,937	2,986	3,035	3,084	3,133	3,182	
2,137	2,187	2,236	2,285	2,334	2,383	2,432	2,481	2,530	2,579	2,628	2,677	2,726	2,775	2,824	2,873	2,922	2,971	3,020	3,069	3,118	3,167	3,216	
2,171	2,221	2,270	2,319	2,368	2,417	2,466	2,515	2,564	2,613	2,662	2,711	2,760	2,809	2,858	2,907	2,956	3,005	3,054	3,103	3,152	3,201	3,250	
2,205	2,255	2,304	2,353	2,402	2,451	2,500	2,549	2,598	2,647	2,696	2,745	2,794	2,843	2,892	2,941	2,990	3,039	3,088	3,137	3,186	3,235	3,284	
2,239	2,289	2,338	2,387	2,436	2,485	2,534	2,583	2,632	2,681	2,730	2,779	2,828	2,877	2,926	2,975	3,024	3,073	3,122	3,171	3,220	3,269	3,318	
2,273	2,323	2,372	2,421	2,470	2,519	2,568	2,617	2,666	2,715	2,764	2,813	2,862	2,911	2,960	3,009	3,058	3,107	3,156	3,205	3,254	3,303	3,352	
2,307	2,357	2,406	2,455	2,504	2,553	2,602	2,651	2,700	2,749	2,798	2,847	2,896	2,945	2,994	3,043	3,092	3,141	3,190	3,239	3,288	3,337	3,386	
2,341	2,391	2,440	2,489	2,538	2,587	2,636	2,685	2,734	2,783	2,832	2,881	2,930	2,979	3,028	3,077	3,126	3,175	3,224	3,273	3,322	3,371	3,420	
2,375	2,425	2,474	2,523	2,572	2,621	2,670	2,719	2,768	2,817	2,866	2,915	2,964	3,013	3,062	3,111	3,160	3,209	3,258	3,307	3,356	3,405	3,454	
2,409	2,459	2,508	2,557	2,606	2,655	2,704	2,753	2,802	2,851	2,900	2,949	2,998	3,047	3,096	3,145	3,194	3,243	3,292	3,341	3,390	3,439	3,488	
2,443	2,493	2,542	2,591	2,640	2,689	2,738	2,787	2,836	2,885	2,934	2,983	3,032	3,081	3,130	3,179	3,228	3,277	3,326	3,375	3,424	3,473	3,522	
2,477	2,527	2,576	2,625	2,674	2,723	2,772	2,821	2,870	2,919	2,968	3,017	3,066	3,115	3,164	3,213	3,262	3,311	3,360	3,409	3,458	3,507	3,556	
2,511	2,561	2,610	2,659	2,708	2,757	2,806	2,855	2,904	2,953	3,002	3,051	3,100	3,149	3,198	3,247	3,296	3,345	3,394	3,443	3,492	3,541	3,590	
2,545	2,595	2,644	2,693	2,742	2,791	2,840	2,889	2,938	2,987	3,036	3,085	3,134	3,183	3,232	3,281	3,330	3,379	3,428	3,477	3,526	3,575	3,624	
2,579	2,629	2,678	2,727	2,776	2,825	2,874	2,923	2,972	3,021	3,070	3,119	3,168	3,217	3,266	3,315	3,364	3,413	3,462	3,511	3,560	3,609	3,658	
2,613	2,663	2,712	2,761	2,810	2,859	2,908	2,957	3,006	3,055	3,104	3,153	3,202	3,251	3,300	3,349	3,398	3,447	3,496	3,545	3,594	3,643	3,692	
2,647	2,697	2,746	2,795	2,844	2,893	2,942	2,991	3,040	3,089	3,138	3,187	3,236	3,285	3,334	3,383	3,432	3,481	3,530	3,579	3,628	3,677	3,726	
2,681	2,731	2,780	2,829	2,878	2,927	2,976	3,025	3,074	3,123	3,172	3,221	3,270	3,319	3,368	3,417	3,466	3,515	3,564	3,613	3,662	3,711	3,760	
2,715	2,765	2,814	2,863	2,912	2,961	3,010	3,059	3,108	3,157	3,206	3,255	3,304	3,353	3,402	3,451	3,500	3,549	3,598	3,647	3,696	3,745	3,794	
2,749	2,799	2,848	2,897	2,946	2,995	3,044	3,093	3,142	3,191	3,240	3,289	3,338	3,387	3,436	3,485	3,534	3,583	3,632	3,681	3,730	3,779	3,828	
2,783	2,833	2,882	2,931	2,980	3,029	3,078	3,127	3,176	3,225	3,274	3,323	3,372	3,421	3,470	3,519	3,568	3,617	3,666	3,715	3,764	3,813	3,862	
2,817	2,867	2,916	2,965	3,014	3,063	3,112	3,161	3,210	3,259	3,308	3,357	3,406	3,455	3,504	3,553	3,602	3,651	3,700	3,749	3,798	3,847	3,896	
2,851	2,901	2,950	3,000	3,049	3,098	3,147	3,196	3,245	3,294	3,343	3,392	3,441	3,490	3,539	3,588	3,637	3,686	3,735	3,784	3,833	3,882	3,931	
2,885	2,935	2,984	3,033	3,082	3,131	3,180	3,229	3,278															





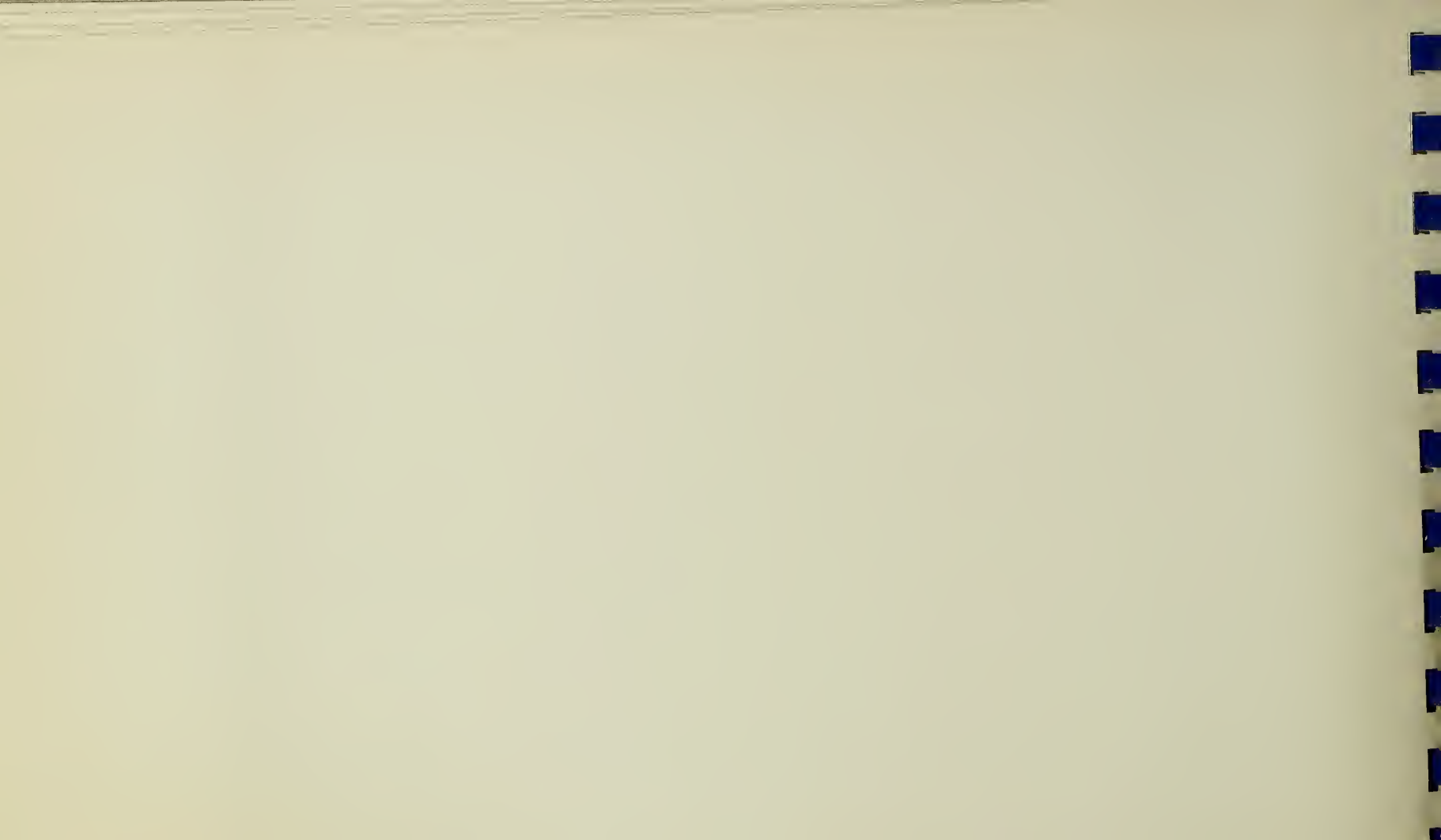
INCHES	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
26	2,340	2,411	2,482	2,553	2,624	2,695	2,766	2,837	2,908	2,979	3,050	3,121	3,192	3,263	3,334	3,405	3,476	3,547	3,618	3,689	3,760	3,831	3,902
27		2,484	2,557	2,630	2,703	2,776	2,849	2,922	2,995	3,068	3,141	3,214	3,287	3,360	3,433	3,506	3,579	3,652	3,725	3,798	3,871	3,944	4,017
28			2,632	2,707	2,782	2,857	2,932	3,007	3,082	3,157	3,232	3,307	3,382	3,457	3,532	3,607	3,682	3,757	3,832	3,907	3,982	4,057	4,132
29				2,784	2,861	2,938	3,015	3,092	3,169	3,246	3,323	3,400	3,477	3,554	3,631	3,708	3,785	3,862	3,939	4,016	4,093	4,170	4,247
30					2,940	3,019	3,098	3,177	3,256	3,335	3,414	3,493	3,572	3,651	3,730	3,809	3,888	3,967	4,046	4,125	4,204	4,283	4,362
31						3,100	3,181	3,262	3,343	3,424	3,505	3,586	3,667	3,748	3,829	3,910	3,991	4,072	4,153	4,234	4,315	4,396	4,477
32							3,264	3,347	3,430	3,513	3,596	3,679	3,762	3,845	3,928	4,011	4,094	4,177	4,260	4,343	4,426	4,509	4,592
33								3,432	3,517	3,602	3,687	3,772	3,857	3,942	4,027	4,112	4,197	4,282	4,367	4,452	4,537	4,622	4,707
34									3,604	3,691	3,778	3,865	3,952	4,039	4,126	4,213	4,300	4,387	4,474	4,561	4,648	4,735	4,822
35										3,780	3,869	3,958	4,047	4,136	4,225	4,314	4,403	4,492	4,581	4,670	4,759	4,848	4,937
36											3,960	4,051	4,142	4,233	4,324	4,415	4,506	4,597	4,688	4,779	4,870	4,961	5,052
37												4,144	4,237	4,330	4,423	4,516	4,609	4,702	4,795	4,888	4,981	5,074	5,167
38													4,332	4,427	4,522	4,617	4,712	4,807	4,902	4,997	5,092	5,187	5,282
39														4,524	4,621	4,718	4,815	4,912	5,009	5,106	5,203	5,300	5,397
40															4,720	4,819	4,918	5,017	5,116	5,215	5,314	5,413	5,512
41																4,920	5,021	5,122	5,223	5,324	5,425	5,526	5,627
42																	5,124	5,227	5,330	5,433	5,536	5,639	5,742
43																		5,332	5,437	5,542	5,647	5,752	5,857
44																			5,544	5,651	5,758	5,865	5,972
45																				5,760	5,869	5,978	6,087
46																					5,980	6,091	6,202
47																						6,204	6,317
48																							6,432

10" 10 1/2" 11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25"

INCHES	10	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26
10	600.0	620.0	640.0	660.0	680.0	700.0	720.0	740.0	760.0	780.0	800.0	840.0	880.0	920.0	960.0	1,000	1,040	1,080	1,120	1,160	1,200	1,240
10-1/2		640.5	661.0	681.5	702.0	722.5	743.0	763.5	784.0	804.5	825.0	866.0	907.0	948.0	989.0	1,030	1,071	1,112	1,153	1,194	1,235	1,276
11			682.0	703.0	724.0	745.0	766.0	787.0	808.0	829.0	850.0	892.0	934.0	976.0	1,018	1,060	1,102	1,144	1,186	1,228	1,270	1,312
11-1/2				724.5	746.0	767.5	789.0	810.5	832.0	853.5	875.0	918.0	961.0	1,004	1,047	1,090	1,133	1,176	1,219	1,262	1,305	1,348
12					768.0	790.0	812.0	834.0	856.0	878.0	900.0	944.0	988.0	1,032	1,076	1,120	1,164	1,208	1,252	1,296	1,340	1,384
12-1/2						812.5	835.0	857.5	880.0	902.5	925.0	970.0	1,015	1,060	1,105	1,150	1,195	1,240	1,285	1,330	1,375	1,420
13							858.0	881.0	904.0	927.0	950.0	996.0	1,042	1,088	1,134	1,180	1,226	1,272	1,318	1,364	1,410	1,456
13-1/2								904.5	928.0	951.5	975.0	1,022	1,069	1,116	1,163	1,210	1,257	1,304	1,351	1,398	1,445	1,492
14									952.0	976.0	1,000	1,048	1,096	1,144	1,192	1,240	1,288	1,336	1,384	1,432	1,480	1,528
14-1/2										1,001	1,025	1,074	1,123	1,172	1,221	1,270	1,319	1,368	1,417	1,466	1,515	1,564
15											1,050	1,100	1,150	1,200	1,250	1,300	1,350	1,400	1,450	1,500	1,550	1,600
16												1,152	1,204	1,256	1,308	1,360	1,412	1,464	1,516	1,568	1,620	1,672
17													1,258	1,312	1,366	1,420	1,474	1,528	1,582	1,636	1,690	1,744
18														1,368	1,424	1,480	1,536	1,592	1,648	1,704	1,760	1,816
19															1,482	1,540	1,598	1,656	1,714	1,772	1,830	1,888
20																1,600	1,660	1,720	1,780	1,840	1,900	1,960
21																	1,722	1,784	1,846	1,908	1,970	2,032
22																		1,848	1,912	1,976	2,040	2,104
23																			1,978	2,044	2,110	2,176
24																				2,112	2,180	2,248
25																					2,250	2,320
26																						2,392

27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48 ← INCHES	
1,280	1,320	1,360	1,400	1,440	1,480	1,520	1,560	1,600	1,640	1,680	1,720	1,760	1,800	1,840	1,880	1,920	1,960	2,000	2,040	2,080	2,120	10
1,317	1,358	1,399	1,440	1,481	1,522	1,563	1,604	1,645	1,686	1,727	1,768	1,809	1,850	1,891	1,932	1,973	2,014	2,055	2,096	2,137	2,178	10-1/2
1,354	1,396	1,438	1,480	1,522	1,564	1,606	1,648	1,690	1,732	1,774	1,816	1,858	1,900	1,942	1,984	2,026	2,068	2,110	2,152	2,194	2,236	11
1,391	1,434	1,477	1,520	1,563	1,606	1,649	1,692	1,735	1,778	1,821	1,864	1,907	1,950	1,993	2,036	2,079	2,122	2,165	2,208	2,251	2,294	11-1/2
1,428	1,472	1,516	1,560	1,604	1,648	1,692	1,736	1,780	1,824	1,868	1,912	1,956	2,000	2,044	2,088	2,132	2,176	2,220	2,264	2,308	2,352	12
1,465	1,510	1,555	1,600	1,645	1,690	1,735	1,780	1,825	1,870	1,915	1,960	2,005	2,050	2,095	2,140	2,185	2,230	2,275	2,320	2,365	2,410	12-1/2
1,502	1,548	1,594	1,640	1,686	1,732	1,778	1,824	1,870	1,916	1,962	2,008	2,054	2,100	2,146	2,192	2,238	2,284	2,330	2,376	2,422	2,468	13
1,539	1,586	1,633	1,680	1,727	1,774	1,821	1,868	1,915	1,962	2,009	2,056	2,103	2,150	2,197	2,244	2,291	2,338	2,385	2,432	2,479	2,526	13-1/2
1,576	1,624	1,672	1,720	1,768	1,816	1,864	1,912	1,960	2,008	2,056	2,104	2,152	2,200	2,248	2,296	2,344	2,392	2,440	2,488	2,536	2,584	14
1,613	1,662	1,711	1,760	1,809	1,858	1,907	1,956	2,005	2,054	2,103	2,152	2,201	2,250	2,299	2,348	2,397	2,446	2,495	2,544	2,593	2,642	14-1/2
1,650	1,700	1,750	1,800	1,850	1,900	1,950	2,000	2,050	2,100	2,150	2,200	2,250	2,300	2,350	2,400	2,450	2,500	2,550	2,600	2,650	2,700	15
1,724	1,775	1,828	1,880	1,932	1,984	2,036	2,088	2,140	2,192	2,244	2,296	2,348	2,400	2,452	2,504	2,556	2,608	2,660	2,712	2,764	2,816	16
1,793	1,852	1,926	1,960	2,014	2,068	2,122	2,176	2,230	2,284	2,338	2,392	2,446	2,500	2,554	2,608	2,662	2,716	2,770	2,824	2,878	2,932	17
1,872	1,928	1,984	2,040	2,096	2,152	2,208	2,264	2,320	2,376	2,432	2,488	2,544	2,600	2,656	2,712	2,768	2,824	2,880	2,936	2,992	3,048	18
1,946	2,004	2,062	2,120	2,178	2,236	2,294	2,352	2,410	2,468	2,526	2,584	2,642	2,700	2,758	2,816	2,874	2,932	2,990	3,048	3,106	3,164	19
2,020	2,080	2,140	2,200	2,260	2,320	2,380	2,440	2,500	2,560	2,620	2,680	2,740	2,800	2,860	2,920	2,980	3,040	3,100	3,160	3,220	3,280	20
2,094	2,156	2,218	2,280	2,342	2,404	2,466	2,528	2,590	2,652	2,714	2,776	2,838	2,900	2,962	3,024	3,086	3,148	3,210	3,272	3,334	3,396	21
2,168	2,232	2,296	2,360	2,424	2,488	2,552	2,616	2,680	2,744	2,808	2,872	2,936	3,000	3,064	3,128	3,192	3,256	3,320	3,384	3,448	3,512	22
2,242	2,308	2,374	2,440	2,506	2,572	2,638	2,704	2,770	2,836	2,902	2,968	3,034	3,100	3,166	3,232	3,298	3,364	3,430	3,496	3,562	3,628	23
2,316	2,384	2,452	2,520	2,588	2,656	2,724	2,792	2,860	2,928	2,996	3,064	3,132	3,200	3,268	3,336	3,404	3,472	3,540	3,608	3,676	3,744	24
2,390	2,460	2,530	2,600	2,670	2,740	2,810	2,880	2,950	3,020	3,090	3,160	3,230	3,300	3,370	3,440	3,510	3,580	3,650	3,720	3,790	3,860	25
2,464	2,536	2,608	2,680	2,752	2,824	2,896	2,968	3,040	3,112	3,184	3,256	3,328	3,400	3,472	3,544	3,616	3,688	3,760	3,832	3,904	3,976	26

10" 10 1/2" 11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25"



INCHES	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
27	2,538	2,612	2,686	2,760	2,834	2,908	2,982	3,056	3,130	3,204	3,278	3,352	3,426	3,500	3,574	3,648	3,722	3,796	3,870	3,944	4,018	4,092
28		2,688	2,764	2,840	2,916	2,992	3,068	3,144	3,220	3,296	3,372	3,448	3,524	3,600	3,676	3,752	3,828	3,904	3,980	4,056	4,132	4,208
29			2,842	2,920	2,998	3,076	3,154	3,232	3,310	3,388	3,466	3,544	3,622	3,700	3,778	3,856	3,934	4,012	4,090	4,168	4,246	4,324
30				3,000	3,080	3,160	3,240	3,320	3,400	3,480	3,560	3,640	3,720	3,800	3,880	3,960	4,040	4,120	4,200	4,280	4,360	4,440
31					3,162	3,244	3,326	3,408	3,490	3,572	3,654	3,736	3,818	3,900	3,982	4,064	4,146	4,228	4,310	4,392	4,474	4,556
32						3,328	3,412	3,496	3,580	3,664	3,748	3,832	3,916	4,000	4,084	4,168	4,252	4,336	4,420	4,504	4,588	4,672
33							3,498	3,584	3,670	3,756	3,842	3,928	4,014	4,100	4,186	4,272	4,358	4,444	4,530	4,616	4,702	4,788
34								3,672	3,760	3,848	3,936	4,024	4,112	4,200	4,288	4,376	4,464	4,552	4,640	4,728	4,816	4,904
35									3,850	3,940	4,030	4,120	4,210	4,300	4,390	4,480	4,570	4,660	4,750	4,840	4,930	5,020
36										4,032	4,124	4,216	4,308	4,400	4,492	4,584	4,676	4,768	4,860	4,952	5,044	5,136
37											4,218	4,312	4,406	4,500	4,594	4,688	4,782	4,876	4,970	5,064	5,158	5,252
38												4,408	4,504	4,600	4,696	4,792	4,888	4,984	5,080	5,176	5,272	5,368
39													4,602	4,700	4,798	4,896	4,994	5,092	5,190	5,288	5,386	5,484
40														4,800	4,900	5,000	5,100	5,200	5,300	5,400	5,500	5,600
41															5,002	5,104	5,206	5,308	5,410	5,512	5,614	5,716
42																5,208	5,312	5,416	5,520	5,624	5,728	5,832
43																	5,418	5,524	5,630	5,736	5,842	5,948
44																		5,632	5,740	5,848	5,956	6,064
45																			5,850	5,960	6,070	6,180
46																				6,072	6,184	6,296
47																					6,298	6,412
48																						6,528

10 1/2"    11"    11 1/2"    12"    12 1/2"    13"    13 1/2"    14"    14 1/2"    15"    16"    17"    18"    19"    20"    21"    22"    23"    24"    25"



INCHES	10-1/2	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	
10-1/2	661.5	682.5	703.5	724.5	745.5	766.5	787.5	808.5	829.5	850.5	872.5	893.5	914.5	935.5	956.5	977.5	998.5	1,019	1,040	1,061	1,082	1,103
11		704.0	725.5	747.0	768.5	790.0	811.5	833.0	854.5	876.0	897.5	919.0	940.5	962.0	983.5	1,005	1,026	1,048	1,069	1,091	1,112	1,134
11-1/2			747.5	769.5	791.5	813.5	835.5	857.5	879.5	901.5	923.5	945.5	967.5	989.5	1,011	1,034	1,056	1,078	1,100	1,122	1,144	1,166
12				792.0	814.5	837.0	859.5	882.0	904.5	927.0	949.5	972.0	994.5	1,017	1,039	1,062	1,084	1,107	1,129	1,152	1,174	1,197
12-1/2					837.5	860.5	883.5	906.5	929.5	952.5	975.5	998.5	1,021	1,044	1,067	1,090	1,113	1,136	1,159	1,182	1,205	1,228
13						884.0	907.5	931.0	954.5	978.0	1,001	1,025	1,048	1,071	1,095	1,118	1,141	1,165	1,188	1,211	1,234	1,257
13-1/2							931.5	955.5	979.5	1,004	1,028	1,052	1,076	1,100	1,124	1,148	1,172	1,196	1,220	1,244	1,268	1,292
14								980.0	1,005	1,029	1,053	1,077	1,101	1,125	1,149	1,173	1,197	1,221	1,245	1,269	1,293	1,317
14-1/2									1,030	1,055	1,080	1,105	1,130	1,155	1,180	1,205	1,230	1,255	1,280	1,305	1,330	1,355
15										1,080	1,131	1,182	1,233	1,284	1,335	1,386	1,437	1,488	1,539	1,590	1,641	1,692
16											1,184	1,237	1,290	1,343	1,396	1,449	1,502	1,555	1,608	1,661	1,714	1,767
17												1,292	1,347	1,402	1,457	1,512	1,567	1,622	1,677	1,732	1,787	1,842
18													1,404	1,461	1,518	1,575	1,632	1,689	1,746	1,803	1,860	1,917
19														1,520	1,579	1,638	1,697	1,756	1,815	1,874	1,933	1,992
20															1,640	1,701	1,762	1,823	1,884	1,945	2,006	2,067
21																1,764	1,827	1,890	1,953	2,016	2,079	2,142
22																	1,892	1,957	2,022	2,087	2,152	2,217
23																		2,024	2,091	2,158	2,225	2,292
24																			2,160	2,229	2,298	2,367
25																				2,300	2,371	2,442
26																						2,444

27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
1,355	1,397	1,439	1,481	1,523	1,565	1,607	1,649	1,691	1,733	1,775	1,817	1,859	1,901	1,943	1,985	2,027	2,069	2,111	2,153	2,195	2,237	10-1/2
1,392	1,435	1,478	1,521	1,564	1,607	1,650	1,693	1,736	1,779	1,822	1,865	1,908	1,951	1,994	2,037	2,080	2,123	2,166	2,209	2,252	2,295	11
1,430	1,474	1,518	1,562	1,606	1,650	1,694	1,738	1,782	1,826	1,870	1,914	1,958	2,002	2,046	2,090	2,134	2,178	2,222	2,266	2,310	2,354	11-1/2
1,467	1,512	1,557	1,602	1,647	1,692	1,737	1,782	1,827	1,872	1,917	1,962	2,007	2,052	2,097	2,142	2,187	2,232	2,277	2,322	2,367	2,412	12
1,505	1,551	1,597	1,643	1,689	1,735	1,781	1,827	1,873	1,919	1,965	2,011	2,057	2,103	2,149	2,195	2,241	2,287	2,333	2,379	2,425	2,471	12-1/2
1,542	1,589	1,636	1,683	1,730	1,777	1,824	1,871	1,918	1,965	2,012	2,059	2,106	2,153	2,200	2,247	2,294	2,341	2,388	2,435	2,482	2,529	13
1,580	1,628	1,676	1,724	1,772	1,820	1,868	1,916	1,964	2,012	2,060	2,108	2,156	2,204	2,252	2,300	2,348	2,396	2,444	2,492	2,540	2,588	13-1/2
1,617	1,666	1,715	1,764	1,813	1,862	1,911	1,960	2,009	2,058	2,107	2,156	2,205	2,254	2,303	2,352	2,401	2,450	2,499	2,548	2,597	2,646	14
1,655	1,705	1,755	1,805	1,855	1,905	1,955	2,005	2,055	2,105	2,155	2,205	2,255	2,305	2,355	2,405	2,455	2,505	2,555	2,605	2,655	2,705	14-1/2
1,692	1,743	1,794	1,845	1,896	1,947	1,998	2,049	2,100	2,151	2,202	2,253	2,304	2,355	2,406	2,457	2,508	2,559	2,610	2,661	2,712	2,763	15
1,767	1,820	1,873	1,926	1,979	2,032	2,085	2,138	2,191	2,244	2,297	2,350	2,403	2,456	2,509	2,562	2,615	2,668	2,721	2,774	2,827	2,880	16
1,842	1,897	1,952	2,007	2,062	2,117	2,172	2,227	2,282	2,337	2,392	2,447	2,502	2,557	2,612	2,667	2,722	2,777	2,832	2,887	2,942	2,997	17
1,917	1,974	2,031	2,088	2,145	2,202	2,259	2,316	2,373	2,430	2,487	2,544	2,601	2,658	2,715	2,772	2,829	2,886	2,943	3,000	3,057	3,114	18
1,992	2,051	2,110	2,169	2,228	2,287	2,346	2,405	2,464	2,523	2,582	2,641	2,700	2,759	2,818	2,877	2,936	2,995	3,054	3,113	3,172	3,231	19
2,067	2,128	2,189	2,250	2,311	2,372	2,433	2,494	2,555	2,616	2,677	2,738	2,799	2,860	2,921	2,982	3,043	3,104	3,165	3,226	3,287	3,348	20
2,142	2,205	2,268	2,331	2,394	2,457	2,520	2,583	2,646	2,709	2,772	2,835	2,898	2,961	3,024	3,087	3,150	3,213	3,276	3,339	3,402	3,465	21
2,217	2,282	2,347	2,412	2,477	2,542	2,607	2,672	2,737	2,802	2,867	2,932	2,997	3,062	3,127	3,192	3,257	3,322	3,387	3,452	3,517	3,582	22
2,292	2,359	2,426	2,493	2,560	2,627	2,694	2,761	2,828	2,895	2,962	3,029	3,096	3,163	3,230	3,297	3,364	3,431	3,498	3,565	3,632	3,699	23
2,367	2,436	2,505	2,574	2,643	2,712	2,781	2,850	2,919	2,988	3,057	3,126	3,195	3,264	3,333	3,402	3,471	3,540	3,609	3,678	3,747	3,816	24
2,442	2,513	2,584	2,655	2,726	2,797	2,868	2,939	3,010	3,081	3,152	3,223	3,294	3,365	3,436	3,507	3,578	3,649	3,720	3,791	3,862	3,933	25
2,517	2,590	2,663	2,736	2,809	2,882	2,955	3,028	3,101	3,174	3,247	3,320	3,393	3,466	3,539	3,612	3,685	3,758	3,831	3,904	3,977	4,050	26

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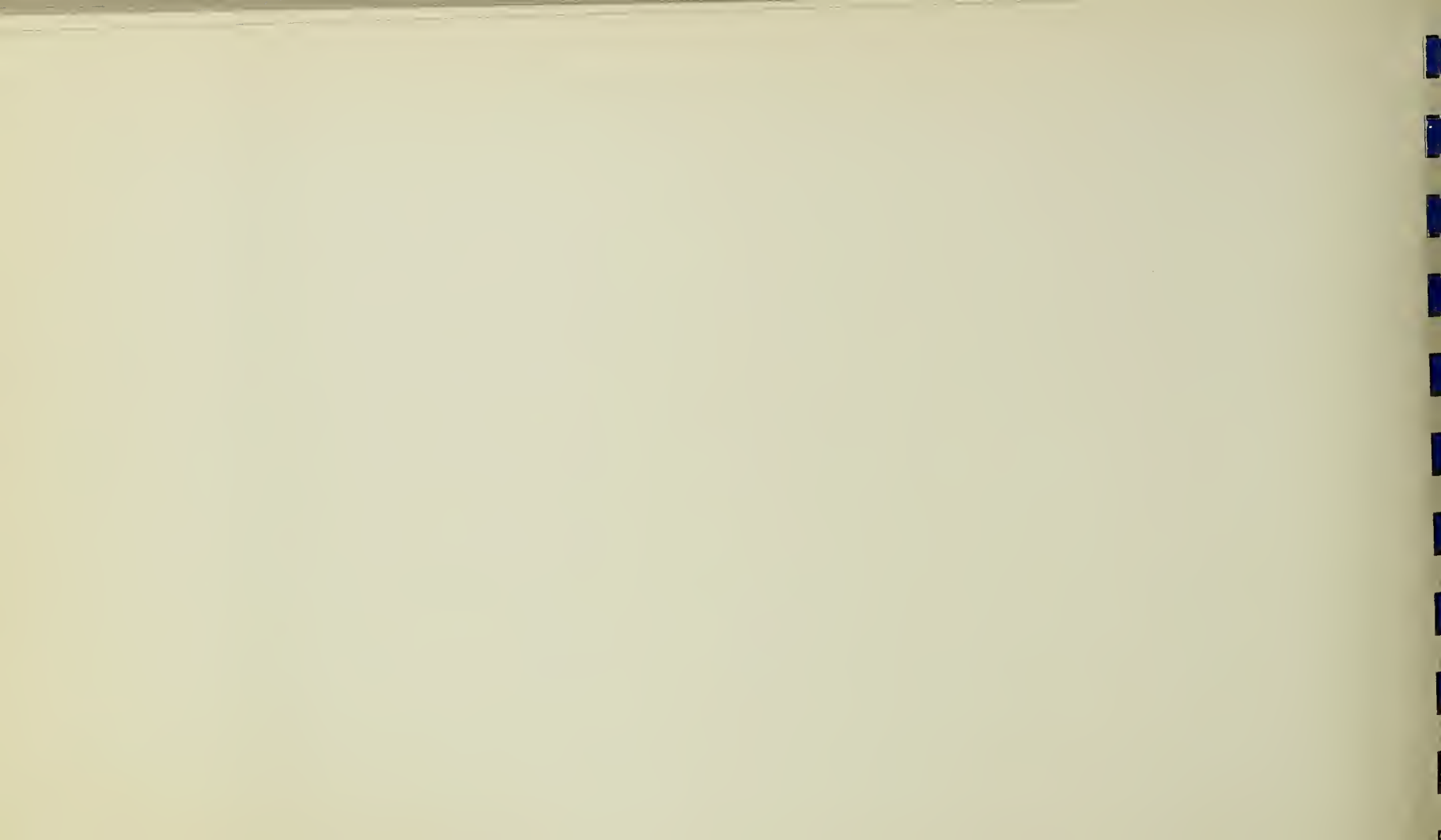
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INCHES →	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
27	2,592	2,667	2,742	2,817	2,892	2,967	3,042	3,117	3,192	3,267	3,342	3,417	3,492	3,567	3,642	3,717	3,792	3,867	3,942	4,017	4,092	4,167
28		2,744	2,821	2,898	2,975	3,052	3,129	3,206	3,283	3,360	3,437	3,514	3,591	3,668	3,745	3,822	3,899	3,976	4,053	4,130	4,207	4,284
29			2,900	2,979	3,058	3,137	3,216	3,295	3,374	3,453	3,532	3,611	3,690	3,769	3,848	3,927	4,006	4,085	4,164	4,243	4,322	4,401
30				3,060	3,141	3,222	3,303	3,384	3,465	3,546	3,627	3,708	3,789	3,870	3,951	4,032	4,113	4,194	4,275	4,356	4,437	4,518
31					3,224	3,307	3,390	3,473	3,556	3,639	3,722	3,805	3,888	3,971	4,054	4,137	4,220	4,303	4,386	4,469	4,552	4,635
32						3,392	3,477	3,562	3,647	3,732	3,817	3,902	3,987	4,072	4,157	4,242	4,327	4,412	4,497	4,582	4,667	4,752
33							3,564	3,651	3,738	3,825	3,912	3,999	4,086	4,173	4,260	4,347	4,434	4,521	4,608	4,695	4,782	4,869
34								3,740	3,829	3,918	4,007	4,096	4,185	4,274	4,363	4,452	4,541	4,630	4,719	4,808	4,897	4,986
35									3,920	4,011	4,102	4,193	4,284	4,375	4,466	4,557	4,648	4,739	4,830	4,921	5,012	5,103
36										4,104	4,197	4,290	4,383	4,476	4,569	4,662	4,755	4,848	4,941	5,034	5,127	5,220
37											4,292	4,387	4,482	4,577	4,672	4,767	4,862	4,957	5,052	5,147	5,242	5,337
38												4,484	4,581	4,678	4,775	4,872	4,969	5,066	5,163	5,260	5,357	5,454
39													4,680	4,779	4,878	4,977	5,076	5,175	5,274	5,373	5,472	5,571
40														4,880	4,981	5,082	5,183	5,284	5,385	5,486	5,587	5,688
41															5,084	5,187	5,290	5,393	5,496	5,599	5,702	5,805
42																5,292	5,397	5,502	5,607	5,712	5,817	5,922
43																	5,504	5,611	5,718	5,825	5,932	6,039
44																		5,720	5,829	5,938	6,047	6,156
45																			5,940	6,051	6,162	6,273
46																				6,164	6,277	6,390
47																					6,392	6,507
48																						6,624

11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25"

INCHES →	11	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27
11	726.0	748.0	770.0	792.0	814.0	836.0	858.0	880.0	902.0	946.0	990.0	1,034	1,078	1,122	1,166	1,210	1,254	1,298	1,342	1,386	1,430
11-1/2		770.5	793.0	815.5	838.0	860.5	883.0	905.5	928.0	973.0	1,018	1,063	1,108	1,153	1,198	1,243	1,288	1,333	1,378	1,423	1,468
12			816.0	839.0	862.0	885.0	908.0	931.0	954.0	1,000	1,046	1,092	1,138	1,184	1,230	1,276	1,322	1,368	1,414	1,460	1,506
12-1/2				862.5	886.0	909.5	933.0	956.5	980.0	1,027	1,074	1,121	1,168	1,215	1,262	1,309	1,356	1,403	1,450	1,497	1,544
13					910.0	934.0	958.0	982.0	1,006	1,054	1,102	1,150	1,198	1,246	1,294	1,342	1,390	1,438	1,486	1,534	1,582
13-1/2						958.5	983.0	1,008	1,032	1,081	1,130	1,179	1,228	1,277	1,326	1,375	1,424	1,473	1,522	1,571	1,620
14							1,008	1,033	1,058	1,108	1,158	1,208	1,258	1,308	1,358	1,408	1,458	1,508	1,558	1,608	1,658
14-1/2								1,059	1,084	1,135	1,186	1,237	1,288	1,339	1,390	1,441	1,492	1,543	1,594	1,645	1,696
15									1,110	1,162	1,214	1,266	1,318	1,370	1,422	1,474	1,526	1,578	1,630	1,682	1,734
16										1,216	1,270	1,324	1,378	1,432	1,486	1,540	1,594	1,648	1,702	1,756	1,810
17											1,326	1,382	1,438	1,494	1,550	1,606	1,662	1,718	1,774	1,830	1,886
18												1,440	1,498	1,556	1,614	1,672	1,730	1,788	1,846	1,904	1,962
19													1,558	1,618	1,678	1,738	1,798	1,858	1,918	1,978	2,038
20														1,680	1,742	1,804	1,866	1,928	1,990	2,052	2,114
21															1,806	1,870	1,934	1,998	2,062	2,126	2,190
22																1,936	2,002	2,068	2,134	2,200	2,266
23																	2,070	2,138	2,206	2,274	2,342
24																		2,208	2,278	2,348	2,418
25																			2,350	2,422	2,494
26																				2,496	2,570
27																					2,646



28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
1,474	1,518	1,562	1,606	1,650	1,694	1,738	1,782	1,826	1,870	1,914	1,958	2,002	2,046	2,090	2,134	2,178	2,222	2,266	2,310	2,354	11
1,513	1,558	1,603	1,648	1,693	1,738	1,783	1,828	1,873	1,918	1,963	2,008	2,053	2,098	2,143	2,188	2,233	2,278	2,323	2,368	2,413	11-1/2
1,552	1,598	1,644	1,690	1,736	1,782	1,828	1,874	1,920	1,966	2,012	2,058	2,104	2,150	2,196	2,242	2,288	2,334	2,380	2,426	2,472	12
1,591	1,638	1,685	1,732	1,779	1,826	1,873	1,920	1,967	2,014	2,061	2,108	2,155	2,202	2,249	2,296	2,343	2,390	2,437	2,484	2,531	12-1/2
1,630	1,678	1,726	1,774	1,822	1,870	1,918	1,966	2,014	2,062	2,110	2,158	2,206	2,254	2,302	2,350	2,398	2,446	2,494	2,542	2,590	13
1,669	1,718	1,767	1,816	1,865	1,914	1,963	2,012	2,061	2,110	2,159	2,208	2,257	2,306	2,355	2,404	2,453	2,502	2,551	2,600	2,649	13-1/2
1,708	1,758	1,808	1,858	1,908	1,958	2,008	2,058	2,108	2,158	2,208	2,258	2,308	2,358	2,408	2,458	2,508	2,558	2,608	2,658	2,708	14
1,747	1,798	1,849	1,900	1,951	2,002	2,053	2,104	2,155	2,206	2,257	2,308	2,359	2,410	2,461	2,512	2,563	2,614	2,665	2,716	2,767	14-1/2
1,786	1,838	1,890	1,942	1,994	2,046	2,098	2,150	2,202	2,254	2,306	2,358	2,410	2,462	2,514	2,566	2,618	2,670	2,722	2,774	2,826	15
1,824	1,918	1,972	2,026	2,080	2,134	2,188	2,242	2,296	2,350	2,404	2,458	2,512	2,566	2,620	2,674	2,728	2,782	2,836	2,890	2,944	16
1,942	1,998	2,054	2,110	2,166	2,222	2,278	2,334	2,390	2,446	2,502	2,558	2,614	2,670	2,726	2,782	2,838	2,894	2,950	3,006	3,062	17
2,020	2,078	2,136	2,194	2,252	2,310	2,368	2,426	2,484	2,542	2,600	2,658	2,716	2,774	2,832	2,890	2,948	3,006	3,064	3,122	3,180	18
2,098	2,158	2,218	2,278	2,338	2,398	2,458	2,518	2,578	2,638	2,698	2,758	2,818	2,878	2,938	2,998	3,058	3,118	3,178	3,238	3,298	19
2,176	2,238	2,300	2,362	2,424	2,486	2,548	2,610	2,672	2,734	2,796	2,858	2,920	2,982	3,044	3,106	3,168	3,230	3,292	3,354	3,416	20
2,254	2,318	2,382	2,446	2,510	2,574	2,638	2,702	2,766	2,830	2,894	2,958	3,022	3,086	3,150	3,214	3,278	3,342	3,406	3,470	3,534	21
2,332	2,398	2,464	2,530	2,596	2,662	2,728	2,794	2,860	2,926	2,992	3,058	3,124	3,190	3,256	3,322	3,388	3,454	3,520	3,586	3,652	22
2,410	2,478	2,546	2,614	2,682	2,750	2,818	2,886	2,954	3,022	3,090	3,158	3,226	3,294	3,362	3,430	3,498	3,566	3,634	3,702	3,770	23
2,488	2,558	2,628	2,698	2,768	2,838	2,908	2,978	3,048	3,118	3,188	3,258	3,328	3,398	3,468	3,538	3,608	3,678	3,748	3,818	3,888	24
2,566	2,638	2,710	2,782	2,854	2,926	2,998	3,070	3,142	3,214	3,286	3,358	3,430	3,502	3,574	3,646	3,718	3,790	3,862	3,934	4,006	25
2,644	2,718	2,792	2,866	2,940	3,014	3,088	3,162	3,236	3,310	3,384	3,458	3,532	3,606	3,680	3,754	3,828	3,902	3,976	4,050	4,124	26
2,722	2,798	2,874	2,950	3,026	3,102	3,178	3,254	3,330	3,406	3,482	3,558	3,634	3,710	3,786	3,862	3,938	4,014	4,090	4,166	4,242	27

11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25"



INCHES	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
28	2,800	2,878	2,956	3,034	3,112	3,190	3,268	3,346	3,424	3,502	3,580	3,658	3,736	3,814	3,892	3,970	4,048	4,126	4,204	4,282	4,360
29		2,958	3,038	3,118	3,198	3,278	3,358	3,438	3,518	3,598	3,678	3,758	3,838	3,918	3,998	4,078	4,158	4,238	4,318	4,398	4,478
30			3,120	3,202	3,284	3,366	3,448	3,530	3,612	3,694	3,776	3,858	3,940	4,022	4,104	4,186	4,268	4,350	4,432	4,514	4,596
31				3,286	3,370	3,454	3,538	3,622	3,706	3,790	3,874	3,958	4,042	4,126	4,210	4,294	4,378	4,462	4,546	4,630	4,714
32					3,456	3,542	3,628	3,714	3,800	3,886	3,972	4,058	4,144	4,230	4,316	4,402	4,488	4,574	4,660	4,746	4,832
33						3,630	3,718	3,806	3,894	3,982	4,070	4,158	4,246	4,334	4,422	4,510	4,598	4,686	4,774	4,862	4,950
34							3,808	3,898	3,988	4,078	4,168	4,258	4,348	4,438	4,528	4,618	4,708	4,798	4,888	4,978	5,068
35								3,990	4,082	4,174	4,266	4,358	4,450	4,542	4,634	4,726	4,818	4,910	5,002	5,094	5,186
36									4,176	4,270	4,364	4,458	4,552	4,646	4,740	4,834	4,928	5,022	5,116	5,210	5,304
37										4,366	4,462	4,558	4,654	4,750	4,846	4,942	5,038	5,134	5,230	5,326	5,422
38											4,560	4,658	4,756	4,854	4,952	5,050	5,148	5,246	5,344	5,442	5,540
39												4,758	4,858	4,958	5,058	5,158	5,258	5,358	5,458	5,558	5,658
40													4,960	5,062	5,164	5,266	5,368	5,470	5,572	5,674	5,776
41														5,166	5,270	5,374	5,478	5,582	5,686	5,790	5,894
42															5,376	5,482	5,588	5,694	5,800	5,906	6,012
43																5,590	5,698	5,806	5,914	6,022	6,130
44																	5,808	5,918	6,028	6,138	6,248
45																		6,030	6,142	6,254	6,366
46																			6,256	6,370	6,484
47																				6,486	6,602
48																					6,720

$11\frac{1}{2}$      $12$      $12\frac{1}{2}$      $13$      $13\frac{1}{2}$      $14$      $14\frac{1}{2}$      $15$      $16$      $17$      $18$      $19$      $20$      $21$      $22$      $23$      $24$      $25$

INCHES	11-1/2	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27
11-1/2	793.5	816.5	839.5	862.5	885.5	908.5	931.5	954.5	1,001	1,047	1,093	1,139	1,185	1,231	1,277	1,323	1,369	1,415	1,461	1,507
12		840.0	863.5	887.0	910.5	934.0	957.5	981.0	1,028	1,075	1,122	1,169	1,216	1,263	1,310	1,357	1,404	1,451	1,498	1,545
12-1/2			887.5	911.5	935.5	959.5	983.5	1,008	1,056	1,104	1,152	1,200	1,248	1,296	1,344	1,392	1,440	1,488	1,536	1,584
13				936.0	960.5	985.0	1,010	1,034	1,083	1,132	1,181	1,230	1,279	1,328	1,377	1,426	1,475	1,524	1,573	1,622
13-1/2					985.5	1,011	1,036	1,061	1,111	1,161	1,211	1,261	1,311	1,361	1,411	1,461	1,511	1,561	1,611	1,661
14						1,036	1,062	1,087	1,138	1,189	1,240	1,291	1,342	1,393	1,444	1,495	1,546	1,597	1,648	1,699
14-1/2							1,088	1,114	1,166	1,218	1,270	1,322	1,374	1,426	1,478	1,530	1,582	1,634	1,686	1,738
15								1,140	1,193	1,246	1,299	1,352	1,405	1,458	1,511	1,564	1,617	1,670	1,723	1,776
16									1,248	1,303	1,358	1,413	1,468	1,523	1,578	1,633	1,688	1,743	1,798	1,853
17										1,360	1,417	1,474	1,531	1,588	1,645	1,702	1,759	1,816	1,873	1,930
18											1,476	1,535	1,594	1,653	1,712	1,771	1,830	1,889	1,948	2,007
19												1,596	1,657	1,718	1,779	1,840	1,901	1,962	2,023	2,084
20													1,720	1,783	1,846	1,909	1,972	2,035	2,098	2,161
21														1,848	1,913	1,978	2,043	2,108	2,173	2,238
22															1,980	2,047	2,114	2,181	2,248	2,315
23																2,116	2,185	2,254	2,323	2,392
24																	2,256	2,327	2,398	2,469
25																		2,400	2,473	2,546
26																			2,548	2,623
27																				2,700

28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
1,553	1,599	1,645	1,691	1,737	1,783	1,829	1,875	1,921	1,967	2,013	2,059	2,105	2,151	2,197	2,243	2,289	2,335	2,381	2,427	2,473	11-1/2
1,592	1,639	1,686	1,733	1,780	1,827	1,874	1,921	1,968	2,015	2,062	2,109	2,156	2,203	2,250	2,297	2,344	2,391	2,438	2,485	2,532	12
1,632	1,680	1,728	1,776	1,824	1,872	1,920	1,968	2,016	2,064	2,112	2,160	2,208	2,256	2,304	2,352	2,400	2,448	2,496	2,544	2,592	12-1/2
1,671	1,720	1,769	1,818	1,867	1,916	1,965	2,014	2,063	2,112	2,161	2,210	2,259	2,308	2,357	2,406	2,455	2,504	2,553	2,602	2,651	13
1,711	1,761	1,811	1,861	1,911	1,961	2,011	2,061	2,111	2,161	2,211	2,261	2,311	2,361	2,411	2,461	2,511	2,561	2,611	2,661	2,711	13-1/2
1,750	1,801	1,852	1,903	1,954	2,005	2,056	2,107	2,158	2,209	2,260	2,311	2,362	2,413	2,464	2,515	2,566	2,617	2,668	2,719	2,770	14
1,790	1,842	1,894	1,946	1,998	2,050	2,102	2,154	2,206	2,258	2,310	2,362	2,414	2,466	2,518	2,570	2,622	2,674	2,726	2,778	2,830	14-1/2
1,829	1,882	1,935	1,988	2,041	2,094	2,147	2,200	2,253	2,306	2,359	2,412	2,465	2,518	2,571	2,624	2,677	2,730	2,783	2,836	2,889	15
1,908	1,963	2,018	2,073	2,128	2,183	2,238	2,293	2,348	2,403	2,458	2,513	2,568	2,623	2,678	2,733	2,788	2,843	2,898	2,953	3,008	16
1,987	2,044	2,101	2,158	2,215	2,272	2,329	2,386	2,443	2,500	2,557	2,614	2,671	2,728	2,785	2,842	2,899	2,956	3,013	3,070	3,127	17
2,066	2,125	2,184	2,243	2,302	2,361	2,420	2,479	2,538	2,597	2,656	2,715	2,774	2,833	2,892	2,951	3,010	3,069	3,128	3,187	3,246	18
2,145	2,206	2,267	2,328	2,389	2,450	2,511	2,572	2,633	2,694	2,755	2,816	2,877	2,938	2,999	3,060	3,121	3,182	3,243	3,304	3,365	19
2,224	2,287	2,350	2,413	2,476	2,539	2,602	2,665	2,728	2,791	2,854	2,917	2,980	3,043	3,106	3,169	3,232	3,295	3,358	3,421	3,484	20
2,303	2,368	2,433	2,498	2,563	2,628	2,693	2,758	2,823	2,888	2,953	3,018	3,083	3,148	3,213	3,278	3,343	3,408	3,473	3,538	3,603	21
2,382	2,449	2,516	2,583	2,650	2,717	2,784	2,851	2,918	2,985	3,052	3,119	3,186	3,253	3,320	3,387	3,454	3,521	3,588	3,655	3,722	22
2,461	2,530	2,599	2,668	2,737	2,806	2,875	2,944	3,013	3,082	3,151	3,220	3,289	3,358	3,427	3,496	3,565	3,634	3,703	3,772	3,841	23
2,540	2,611	2,682	2,753	2,824	2,895	2,966	3,037	3,108	3,179	3,250	3,321	3,392	3,463	3,534	3,605	3,676	3,747	3,818	3,889	3,960	24
2,619	2,692	2,765	2,838	2,911	2,984	3,057	3,130	3,203	3,276	3,349	3,422	3,495	3,568	3,641	3,714	3,787	3,860	3,933	4,006	4,079	25
2,698	2,773	2,848	2,923	2,998	3,073	3,148	3,223	3,298	3,373	3,448	3,523	3,598	3,673	3,748	3,823	3,898	3,973	4,048	4,123	4,198	26
2,777	2,854	2,931	3,008	3,085	3,162	3,239	3,316	3,393	3,470	3,547	3,624	3,701	3,778	3,855	3,932	4,009	4,086	4,163	4,240	4,317	27

11 1/2 12 12 1/2 13 13 1/2 14 14 1/2 15 16 17 18 19 20 21 22 23 24 25





INCHES	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
28	2,856	2,935	3,014	3,093	3,172	3,251	3,330	3,409	3,488	3,567	3,646	3,725	3,804	3,883	3,962	4,041	4,120	4,199	4,278	4,357	4,436
29		3,016	3,097	3,178	3,259	3,340	3,421	3,502	3,583	3,664	3,745	3,826	3,907	3,988	4,069	4,150	4,231	4,312	4,393	4,474	4,555
30			3,180	3,263	3,346	3,429	3,512	3,595	3,678	3,761	3,844	3,927	4,010	4,093	4,176	4,259	4,342	4,425	4,508	4,591	4,674
31				3,348	3,433	3,518	3,603	3,688	3,773	3,858	3,943	4,028	4,113	4,198	4,283	4,368	4,453	4,538	4,623	4,708	4,793
32					3,520	3,607	3,694	3,781	3,868	3,955	4,042	4,129	4,216	4,303	4,390	4,477	4,564	4,651	4,738	4,825	4,912
33						3,696	3,785	3,874	3,963	4,052	4,141	4,230	4,319	4,408	4,497	4,586	4,675	4,764	4,853	4,942	5,031
34							3,876	3,967	4,058	4,149	4,240	4,331	4,422	4,513	4,604	4,695	4,786	4,877	4,968	5,059	5,150
35								4,060	4,153	4,246	4,339	4,432	4,525	4,618	4,711	4,804	4,897	4,990	5,083	5,176	5,269
36									4,248	4,343	4,438	4,533	4,628	4,723	4,818	4,913	5,008	5,103	5,198	5,293	5,388
37										4,440	4,537	4,634	4,731	4,828	4,925	5,022	5,119	5,216	5,313	5,410	5,507
38											4,636	4,735	4,834	4,933	5,032	5,131	5,230	5,329	5,428	5,527	5,626
39												4,836	4,937	5,038	5,139	5,240	5,341	5,442	5,543	5,644	5,745
40													5,040	5,143	5,246	5,349	5,452	5,555	5,658	5,761	5,864
41														5,248	5,353	5,458	5,563	5,668	5,773	5,878	5,983
42															5,460	5,576	5,674	5,781	5,888	5,995	6,102
43																5,676	5,785	5,894	6,003	6,112	6,221
44																	5,896	6,007	6,118	6,229	6,340
45																		6,120	6,233	6,346	6,459
46																			6,348	6,463	6,578
47																				6,580	6,697
48																					6,816

12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15' 16" 17' 18' 19' 20' 21' 22' 23' 24' 25'

INCHES	12	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27	28
12	854.0	838.0	912.0	936.0	960.0	984.0	1,008	1,056	1,104	1,152	1,200	1,248	1,296	1,344	1,392	1,440	1,488	1,536	1,584	1,632
12-1/2		912.5	937.0	961.5	986.0	1,011	1,035	1,084	1,133	1,182	1,231	1,280	1,329	1,378	1,427	1,476	1,525	1,574	1,623	1,672
13			962.0	987.0	1,012	1,037	1,062	1,112	1,162	1,212	1,262	1,312	1,362	1,412	1,462	1,512	1,562	1,612	1,662	1,712
13-1/2				1,013	1,038	1,064	1,089	1,140	1,191	1,242	1,293	1,344	1,395	1,446	1,497	1,548	1,599	1,650	1,701	1,752
14					1,064	1,090	1,116	1,168	1,220	1,272	1,324	1,376	1,428	1,480	1,532	1,584	1,636	1,688	1,740	1,792
14-1/2						1,117	1,143	1,196	1,249	1,302	1,355	1,408	1,461	1,514	1,567	1,620	1,673	1,726	1,779	1,832
15							1,170	1,224	1,278	1,332	1,386	1,440	1,494	1,548	1,602	1,656	1,710	1,764	1,818	1,872
16								1,280	1,336	1,392	1,448	1,504	1,560	1,616	1,672	1,728	1,784	1,840	1,896	1,952
17									1,394	1,452	1,510	1,568	1,626	1,684	1,742	1,800	1,858	1,916	1,974	2,032
18										1,512	1,572	1,632	1,692	1,752	1,812	1,872	1,932	1,992	2,052	2,112
19											1,634	1,696	1,758	1,820	1,882	1,944	2,006	2,068	2,130	2,192
20												1,760	1,824	1,888	1,952	2,016	2,080	2,144	2,208	2,272
21													1,890	1,956	2,022	2,088	2,154	2,220	2,286	2,352
22														2,024	2,092	2,160	2,228	2,296	2,364	2,432
23															2,162	2,232	2,302	2,372	2,442	2,512
24																2,304	2,376	2,448	2,520	2,592
25																	2,450	2,524	2,598	2,672
26																		2,600	2,676	2,752
27																			2,754	2,832
28																				2,912

29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
1,680	1,728	1,776	1,824	1,872	1,920	1,968	2,016	2,064	2,112	2,160	2,208	2,256	2,304	2,352	2,400	2,448	2,496	2,544	2,592	12
1,721	1,770	1,819	1,868	1,917	1,966	2,015	2,064	2,113	2,162	2,211	2,260	2,309	2,358	2,407	2,456	2,505	2,554	2,603	2,652	12-1/2
1,762	1,812	1,862	1,912	1,962	2,012	2,062	2,112	2,162	2,212	2,262	2,312	2,362	2,412	2,462	2,512	2,562	2,612	2,662	2,712	13
1,803	1,854	1,905	1,956	2,007	2,058	2,109	2,160	2,211	2,262	2,313	2,364	2,415	2,466	2,517	2,568	2,619	2,670	2,721	2,772	13-1/2
1,844	1,896	1,948	2,000	2,052	2,104	2,156	2,208	2,260	2,312	2,364	2,416	2,468	2,520	2,572	2,624	2,676	2,728	2,780	2,832	14
1,885	1,938	1,991	2,044	2,097	2,150	2,203	2,256	2,309	2,362	2,415	2,468	2,521	2,574	2,627	2,680	2,733	2,786	2,839	2,892	14-1/2
1,926	1,980	2,034	2,088	2,142	2,196	2,250	2,304	2,358	2,412	2,466	2,520	2,574	2,628	2,682	2,736	2,790	2,844	2,898	2,952	15
2,008	2,064	2,120	2,176	2,232	2,288	2,344	2,400	2,456	2,512	2,568	2,624	2,680	2,736	2,792	2,848	2,904	2,960	3,016	3,072	16
2,090	2,148	2,206	2,264	2,322	2,380	2,438	2,496	2,554	2,612	2,670	2,728	2,786	2,844	2,902	2,960	3,018	3,076	3,134	3,192	17
2,172	2,232	2,292	2,352	2,412	2,472	2,532	2,592	2,652	2,712	2,772	2,832	2,892	2,952	3,012	3,072	3,132	3,192	3,252	3,312	18
2,254	2,316	2,378	2,440	2,502	2,564	2,626	2,688	2,750	2,812	2,874	2,936	2,998	3,060	3,122	3,184	3,246	3,308	3,370	3,432	19
2,336	2,400	2,464	2,528	2,592	2,656	2,720	2,784	2,848	2,912	2,976	3,040	3,104	3,168	3,232	3,296	3,360	3,424	3,488	3,552	20
2,418	2,484	2,550	2,616	2,682	2,748	2,814	2,880	2,946	3,012	3,078	3,144	3,210	3,276	3,342	3,408	3,474	3,540	3,606	3,672	21
2,500	2,568	2,636	2,704	2,772	2,840	2,908	2,976	3,044	3,112	3,180	3,248	3,316	3,384	3,452	3,520	3,588	3,656	3,724	3,792	22
2,582	2,652	2,722	2,792	2,862	2,932	3,002	3,072	3,142	3,212	3,282	3,352	3,422	3,492	3,562	3,632	3,702	3,772	3,842	3,912	23
2,664	2,736	2,808	2,880	2,952	3,024	3,096	3,168	3,240	3,312	3,384	3,456	3,528	3,600	3,672	3,744	3,816	3,888	3,960	4,032	24
2,746	2,820	2,894	2,968	3,042	3,116	3,190	3,264	3,338	3,412	3,486	3,560	3,634	3,708	3,782	3,856	3,930	4,004	4,078	4,152	25
2,828	2,904	2,980	3,056	3,132	3,208	3,284	3,360	3,436	3,512	3,588	3,664	3,740	3,816	3,892	3,968	4,044	4,120	4,196	4,272	26
2,910	2,988	3,066	3,144	3,222	3,300	3,378	3,456	3,534	3,612	3,690	3,766	3,846	3,924	4,002	4,080	4,158	4,236	4,314	4,392	27
2,992	3,072	3,152	3,232	3,312	3,392	3,472	3,552	3,632	3,712	3,792	3,872	3,952	4,032	4,112	4,192	4,272	4,352	4,432	4,512	28

12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25"





INCHES	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
29	3,074	3,156	3,238	3,320	3,402	3,484	3,566	3,648	3,730	3,812	3,894	3,976	4,058	4,140	4,222	4,304	4,386	4,468	4,550	4,632
30		3,240	3,324	3,408	3,492	3,576	3,660	3,744	3,828	3,912	3,996	4,080	4,164	4,248	4,332	4,416	4,500	4,584	4,668	4,752
31			3,410	3,496	3,582	3,668	3,754	3,840	3,926	4,012	4,098	4,184	4,270	4,356	4,442	4,528	4,614	4,700	4,786	4,872
32				3,584	3,672	3,760	3,848	3,936	4,024	4,112	4,200	4,288	4,376	4,464	4,552	4,640	4,728	4,816	4,904	4,992
33					3,762	3,852	3,942	4,032	4,122	4,212	4,302	4,392	4,482	4,572	4,662	4,752	4,842	4,932	5,022	5,112
34						3,944	4,036	4,128	4,220	4,312	4,404	4,496	4,588	4,680	4,772	4,864	4,956	5,048	5,140	5,232
35							4,130	4,224	4,318	4,412	4,506	4,600	4,694	4,788	4,882	4,976	5,070	5,164	5,258	5,352
36								4,320	4,416	4,512	4,608	4,704	4,800	4,896	4,992	5,088	5,184	5,280	5,376	5,472
37									4,514	4,612	4,710	4,808	4,906	5,004	5,102	5,200	5,298	5,396	5,494	5,592
38										4,712	4,812	4,912	5,012	5,112	5,212	5,312	5,412	5,512	5,612	5,712
39											4,914	5,016	5,118	5,220	5,322	5,424	5,526	5,628	5,730	5,832
40												5,120	5,224	5,328	5,432	5,536	5,640	5,744	5,848	5,952
41													5,330	5,436	5,542	5,648	5,754	5,860	5,966	6,072
42														5,544	5,652	5,760	5,868	5,976	6,084	6,192
43															5,762	5,872	5,982	6,092	6,202	6,312
44																5,984	6,096	6,208	6,320	6,432
45																	6,210	6,324	6,438	6,552
46																		6,440	6,556	6,672
47																			6,674	6,792
48																				6,912

$12\frac{1}{2}$ "    13"     $13\frac{1}{2}$ "    14"     $14\frac{1}{2}$ "    15"    16"    17"    18"    19"    20"    21"    22"    23"    24"    25"

INCHES	12-1/2	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27	28
12-1/2	937.5	962.5	987.5	1,013	1,038	1,063	1,113	1,163	1,213	1,263	1,313	1,363	1,413	1,463	1,513	1,563	1,613	1,663	1,713
13	938.0	963.0	988.0	1,014	1,039	1,065	1,114	1,164	1,214	1,264	1,314	1,364	1,414	1,464	1,514	1,564	1,614	1,664	1,714
13-1/2				1,040	1,066	1,092	1,118	1,170	1,222	1,274	1,326	1,378	1,430	1,482	1,534	1,586	1,638	1,690	1,742
14				1,092	1,119	1,145	1,198	1,251	1,304	1,357	1,410	1,463	1,516	1,569	1,622	1,675	1,728	1,781	1,834
14-1/2					1,146	1,173	1,227	1,281	1,335	1,389	1,443	1,497	1,551	1,605	1,659	1,713	1,767	1,821	1,875
15						1,200	1,255	1,310	1,365	1,420	1,475	1,530	1,585	1,640	1,695	1,750	1,805	1,860	1,915
16							1,312	1,369	1,426	1,483	1,540	1,597	1,654	1,711	1,768	1,825	1,882	1,939	1,996
17								1,428	1,487	1,546	1,605	1,664	1,723	1,782	1,841	1,900	1,959	2,018	2,077
18									1,548	1,609	1,670	1,731	1,792	1,853	1,914	1,975	2,036	2,097	2,158
19										1,672	1,735	1,798	1,861	1,924	1,987	2,050	2,113	2,176	2,239
20											1,800	1,865	1,930	1,995	2,060	2,125	2,190	2,255	2,320
21												1,932	1,999	2,066	2,133	2,200	2,267	2,334	2,401
22													2,068	2,137	2,206	2,275	2,344	2,413	2,482
23														2,208	2,279	2,350	2,421	2,492	2,563
24															2,352	2,425	2,498	2,571	2,644
25																2,500	2,575	2,650	2,725
26																	2,652	2,729	2,806
27																		2,808	2,887
28																			2,968

29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
1,763	1,813	1,863	1,913	1,963	2,013	2,063	2,113	2,163	2,213	2,263	2,313	2,363	2,413	2,463	2,513	2,563	2,613	2,663	2,713	12-1/2
1,804	1,855	1,906	1,957	2,008	2,059	2,110	2,161	2,212	2,263	2,314	2,365	2,416	2,467	2,518	2,569	2,620	2,671	2,722	2,773	13
1,846	1,898	1,950	2,002	2,054	2,106	2,158	2,210	2,262	2,314	2,366	2,418	2,470	2,522	2,574	2,626	2,678	2,730	2,782	2,834	13-1/2
1,887	1,940	1,993	2,046	2,099	2,152	2,205	2,258	2,311	2,364	2,417	2,470	2,523	2,576	2,629	2,682	2,735	2,788	2,841	2,894	14
1,929	1,983	2,037	2,091	2,145	2,199	2,253	2,307	2,361	2,415	2,469	2,523	2,577	2,631	2,685	2,739	2,793	2,847	2,901	2,955	14-1/2
1,970	2,025	2,080	2,135	2,190	2,245	2,300	2,355	2,410	2,465	2,520	2,575	2,630	2,685	2,740	2,795	2,850	2,905	2,960	3,015	15
2,053	2,110	2,167	2,224	2,281	2,338	2,395	2,452	2,509	2,566	2,623	2,680	2,737	2,794	2,851	2,908	2,965	3,022	3,079	3,136	16
2,136	2,195	2,254	2,313	2,372	2,431	2,490	2,549	2,608	2,667	2,726	2,785	2,844	2,903	2,962	3,021	3,080	3,139	3,198	3,257	17
2,219	2,280	2,341	2,402	2,463	2,524	2,585	2,646	2,707	2,768	2,829	2,890	2,951	3,012	3,073	3,134	3,195	3,256	3,317	3,378	18
2,302	2,365	2,428	2,491	2,554	2,617	2,680	2,743	2,806	2,869	2,932	2,995	3,058	3,121	3,184	3,247	3,310	3,373	3,436	3,499	19
2,385	2,450	2,515	2,580	2,645	2,710	2,775	2,840	2,905	2,970	3,035	3,100	3,165	3,230	3,295	3,360	3,425	3,490	3,555	3,620	20
2,468	2,535	2,602	2,669	2,736	2,803	2,870	2,937	3,004	3,071	3,138	3,205	3,272	3,339	3,406	3,473	3,540	3,607	3,674	3,741	21
2,551	2,620	2,689	2,758	2,827	2,896	2,965	3,034	3,103	3,172	3,241	3,310	3,379	3,448	3,517	3,586	3,655	3,724	3,793	3,862	22
2,634	2,705	2,776	2,847	2,918	2,989	3,060	3,131	3,202	3,273	3,344	3,415	3,486	3,557	3,628	3,699	3,770	3,841	3,912	3,983	23
2,717	2,790	2,863	2,936	3,009	3,082	3,155	3,228	3,301	3,374	3,447	3,520	3,593	3,666	3,739	3,812	3,885	3,958	4,031	4,104	24
2,800	2,875	2,950	3,025	3,100	3,175	3,250	3,325	3,400	3,475	3,550	3,625	3,700	3,775	3,850	3,925	4,000	4,075	4,150	4,225	25
2,883	2,960	3,037	3,114	3,191	3,268	3,345	3,422	3,499	3,576	3,653	3,730	3,807	3,884	3,961	4,038	4,115	4,192	4,269	4,346	26
2,966	3,045	3,124	3,203	3,282	3,361	3,440	3,519	3,598	3,677	3,756	3,835	3,914	3,993	4,072	4,151	4,230	4,309	4,388	4,467	27
3,049	3,130	3,211	3,292	3,373	3,454	3,535	3,616	3,697	3,778	3,859	3,940	4,021	4,102	4,183	4,264	4,345	4,426	4,507	4,588	28

12 1/2"    13"    13 1/2"    14"    14 1/2"    15"    16"    17"    18"    19"    20"    21"    22"    23"    24"    25"



INCHES	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
29	3,132	3,215	3,298	3,381	3,464	3,547	3,630	3,713	3,796	3,879	3,962	4,045	4,128	4,211	4,294	4,377	4,460	4,543	4,626	4,709
30		3,300	3,385	3,470	3,555	3,640	3,725	3,810	3,895	3,980	4,065	4,150	4,235	4,320	4,405	4,490	4,575	4,660	4,745	4,830
31			3,472	3,559	3,646	3,733	3,820	3,907	3,994	4,081	4,168	4,255	4,342	4,429	4,516	4,603	4,690	4,777	4,864	4,951
32				3,648	3,737	3,826	3,915	4,004	4,093	4,182	4,271	4,360	4,449	4,538	4,627	4,716	4,805	4,894	4,983	5,072
33					3,828	3,919	4,010	4,101	4,192	4,283	4,374	4,465	4,556	4,647	4,738	4,829	4,920	5,011	5,102	5,193
34						4,012	4,105	4,198	4,291	4,384	4,477	4,570	4,663	4,756	4,849	4,942	5,035	5,128	5,221	5,314
35							4,200	4,295	4,390	4,485	4,580	4,675	4,770	4,865	4,960	5,055	5,150	5,245	5,340	5,435
36								4,392	4,489	4,586	4,683	4,780	4,877	4,974	5,071	5,168	5,265	5,362	5,459	5,556
37									4,588	4,687	4,786	4,885	4,984	5,083	5,182	5,281	5,380	5,479	5,578	5,677
38										4,788	4,889	4,990	5,091	5,192	5,293	5,394	5,495	5,596	5,697	5,798
39											4,992	5,095	5,198	5,301	5,404	5,507	5,610	5,713	5,816	5,919
40												5,200	5,305	5,410	5,515	5,620	5,725	5,830	5,935	6,040
41													5,412	5,519	5,626	5,733	5,840	5,947	6,054	6,161
42														5,628	5,737	5,846	5,955	6,064	6,173	6,282
43															5,848	5,959	6,070	6,181	6,292	6,403
44																6,072	6,185	6,298	6,411	6,524
45																	6,300	6,415	6,530	6,645
46																		6,532	6,649	6,766
47																			6,768	6,887
48																				7,008



INCHES	13	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
13	1,014	1,040	1,066	1,092	1,118	1,170	1,222	1,274	1,326	1,378	1,430	1,482	1,534	1,586	1,638	1,690	1,742	1,794	1,846
3-1/2		1,067	1,093	1,120	1,146	1,199	1,252	1,305	1,358	1,411	1,464	1,517	1,570	1,623	1,676	1,729	1,782	1,835	1,888
14			1,120	1,147	1,174	1,228	1,282	1,336	1,390	1,444	1,498	1,552	1,606	1,660	1,714	1,768	1,822	1,876	1,930
14-1/2				1,175	1,202	1,257	1,312	1,367	1,422	1,477	1,532	1,587	1,642	1,697	1,752	1,807	1,862	1,917	1,972
15					1,230	1,286	1,342	1,398	1,454	1,510	1,566	1,622	1,678	1,734	1,790	1,846	1,902	1,958	2,014
16						1,344	1,402	1,460	1,518	1,576	1,634	1,692	1,750	1,808	1,866	1,924	1,982	2,040	2,098
17							1,462	1,522	1,582	1,642	1,702	1,762	1,822	1,882	1,942	2,002	2,062	2,122	2,182
18								1,584	1,646	1,708	1,770	1,832	1,894	1,956	2,018	2,080	2,142	2,204	2,266
19									1,710	1,774	1,838	1,902	1,966	2,030	2,094	2,158	2,222	2,286	2,350
20										1,840	1,906	1,972	2,038	2,104	2,170	2,236	2,302	2,368	2,434
21											1,974	2,042	2,110	2,178	2,246	2,314	2,382	2,450	2,518
22												2,112	2,182	2,252	2,322	2,392	2,462	2,532	2,602
23													2,254	2,326	2,398	2,470	2,542	2,614	2,686
24														2,400	2,474	2,548	2,622	2,696	2,770
25															2,550	2,626	2,702	2,778	2,854
26																2,704	2,782	2,860	2,938
27																	2,862	2,942	3,022
28																		3,024	3,106
29																			3,190

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
1,898	1,950	2,002	2,054	2,106	2,158	2,210	2,262	2,314	2,366	2,418	2,470	2,522	2,574	2,626	2,678	2,730	2,782	2,834	13
1,941	1,994	2,047	2,100	2,153	2,206	2,259	2,312	2,365	2,418	2,471	2,524	2,577	2,630	2,683	2,736	2,789	2,842	2,895	13-1/2
1,984	2,038	2,092	2,146	2,200	2,254	2,308	2,362	2,416	2,470	2,524	2,578	2,632	2,686	2,740	2,794	2,848	2,902	2,956	14
2,027	2,082	2,137	2,192	2,247	2,302	2,357	2,412	2,467	2,522	2,577	2,632	2,687	2,742	2,797	2,852	2,907	2,962	3,017	14-1/2
2,070	2,126	2,182	2,238	2,294	2,350	2,406	2,462	2,518	2,574	2,630	2,686	2,742	2,798	2,854	2,910	2,966	3,022	3,078	15
2,156	2,214	2,272	2,330	2,388	2,446	2,504	2,562	2,620	2,678	2,736	2,794	2,852	2,910	2,968	3,026	3,084	3,142	3,200	16
2,242	2,302	2,362	2,422	2,482	2,542	2,602	2,662	2,722	2,782	2,842	2,902	2,962	3,022	3,082	3,142	3,202	3,262	3,322	17
2,328	2,390	2,452	2,514	2,576	2,638	2,700	2,762	2,824	2,886	2,948	3,010	3,072	3,134	3,196	3,258	3,320	3,382	3,444	18
2,414	2,478	2,542	2,606	2,670	2,734	2,798	2,862	2,926	2,990	3,054	3,118	3,182	3,246	3,310	3,374	3,438	3,502	3,566	19
2,500	2,566	2,632	2,698	2,764	2,830	2,896	2,962	3,028	3,094	3,160	3,226	3,292	3,358	3,424	3,490	3,556	3,622	3,688	20
2,586	2,654	2,722	2,790	2,858	2,926	2,994	3,062	3,130	3,198	3,266	3,334	3,402	3,470	3,538	3,606	3,674	3,742	3,810	21
2,672	2,742	2,812	2,882	2,952	3,022	3,092	3,162	3,232	3,302	3,372	3,442	3,512	3,582	3,652	3,722	3,792	3,862	3,932	22
2,758	2,830	2,902	2,974	3,046	3,118	3,190	3,262	3,334	3,406	3,478	3,550	3,622	3,694	3,766	3,838	3,910	3,982	4,054	23
2,844	2,918	2,992	3,066	3,140	3,214	3,288	3,362	3,436	3,510	3,584	3,658	3,732	3,806	3,880	3,954	4,028	4,102	4,176	24
2,930	3,006	3,082	3,158	3,234	3,310	3,386	3,462	3,538	3,614	3,690	3,766	3,842	3,918	3,994	4,070	4,146	4,222	4,298	25
3,016	3,094	3,172	3,250	3,328	3,406	3,484	3,562	3,640	3,718	3,796	3,874	3,952	4,030	4,108	4,186	4,264	4,342	4,420	26
3,102	3,182	3,262	3,342	3,422	3,502	3,582	3,662	3,742	3,822	3,902	3,982	4,062	4,142	4,222	4,302	4,382	4,462	4,542	27
3,188	3,270	3,352	3,434	3,516	3,598	3,680	3,762	3,844	3,926	4,008	4,090	4,172	4,254	4,336	4,418	4,500	4,582	4,664	28
3,274	3,358	3,442	3,526	3,610	3,694	3,778	3,862	3,946	4,030	4,114	4,198	4,282	4,366	4,450	4,534	4,618	4,702	4,786	29

13" 13 1/2" 14" 14 1/2" 15" 16" 17" 18" 19" 20" 21" 22" 23" 24" 25"



INCHES →	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
30	3,360	3,446	3,532	3,618	3,704	3,790	3,876	3,962	4,048	4,134	4,220	4,306	4,392	4,478	4,564	4,650	4,736	4,822	4,908
31		3,534	3,622	3,710	3,798	3,886	3,974	4,062	4,150	4,238	4,326	4,414	4,502	4,590	4,678	4,766	4,854	4,942	5,030
32			3,712	3,802	3,892	3,982	4,072	4,162	4,252	4,342	4,432	4,522	4,612	4,702	4,792	4,882	4,972	5,062	5,152
33				3,894	3,986	4,078	4,170	4,262	4,354	4,446	4,538	4,630	4,722	4,814	4,906	4,998	5,090	5,182	5,274
34					4,080	4,174	4,268	4,362	4,456	4,550	4,644	4,738	4,832	4,926	5,020	5,114	5,208	5,302	5,396
35						4,270	4,366	4,462	4,558	4,654	4,750	4,846	4,942	5,038	5,134	5,230	5,326	5,422	5,518
36							4,464	4,562	4,660	4,758	4,856	4,954	5,052	5,150	5,248	5,346	5,444	5,542	5,640
37								4,662	4,762	4,862	4,962	5,062	5,162	5,262	5,362	5,462	5,562	5,662	5,762
38									4,864	4,966	5,068	5,170	5,272	5,374	5,476	5,578	5,680	5,782	5,884
39										5,070	5,174	5,278	5,382	5,486	5,590	5,694	5,798	5,902	6,006
40											5,280	5,386	5,492	5,598	5,704	5,810	5,916	6,022	6,128
41												5,494	5,602	5,710	5,818	5,926	6,034	6,142	6,250
42													5,712	5,822	5,932	6,042	6,152	6,262	6,372
43														5,934	6,046	6,158	6,270	6,382	6,494
44															6,160	6,274	6,388	6,502	6,616
45																6,390	6,506	6,622	6,738
46																	6,624	6,742	6,860
47																		6,862	6,982
48																			7,104

INCHES:	13-1/2	14	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
13-1/2	1,094	1,121	1,148	1,175	1,229	1,283	1,337	1,391	1,445	1,499	1,553	1,607	1,661	1,715	1,769	1,823	1,877	1,931
14		1,148	1,176	1,203	1,258	1,313	1,368	1,423	1,478	1,533	1,588	1,643	1,698	1,753	1,808	1,863	1,918	1,973
14-1/2			1,204	1,232	1,288	1,344	1,400	1,456	1,512	1,568	1,624	1,680	1,736	1,792	1,848	1,904	1,960	2,016
15				1,260	1,317	1,374	1,431	1,488	1,545	1,602	1,659	1,716	1,773	1,830	1,887	1,944	2,001	2,058
16					1,376	1,435	1,494	1,553	1,612	1,671	1,730	1,789	1,848	1,907	1,966	2,025	2,084	2,143
17						1,496	1,557	1,618	1,679	1,740	1,801	1,862	1,923	1,984	2,045	2,106	2,167	2,228
18							1,620	1,683	1,746	1,809	1,872	1,935	1,998	2,061	2,124	2,187	2,250	2,313
19								1,748	1,813	1,878	1,943	2,008	2,073	2,138	2,203	2,268	2,333	2,398
20									1,880	1,947	2,014	2,081	2,148	2,215	2,282	2,349	2,416	2,483
21										2,016	2,085	2,154	2,223	2,292	2,361	2,430	2,499	2,568
22											2,156	2,227	2,298	2,369	2,440	2,511	2,582	2,653
23												2,300	2,373	2,446	2,519	2,592	2,665	2,738
24													2,448	2,523	2,598	2,673	2,748	2,823
25														2,600	2,677	2,754	2,831	2,908
26															2,756	2,835	2,914	2,993
27																2,916	2,997	3,078
28																	3,080	3,163
29																		3,248



30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
1,985	2,039	2,093	2,147	2,201	2,255	2,309	2,363	2,417	2,471	2,525	2,579	2,633	2,687	2,741	2,795	2,849	2,903	2,957	13-1/2
2,028	2,083	2,138	2,193	2,248	2,303	2,358	2,413	2,468	2,523	2,578	2,633	2,688	2,743	2,798	2,853	2,908	2,963	3,018	14
2,072	2,128	2,184	2,240	2,296	2,352	2,408	2,464	2,520	2,576	2,632	2,688	2,744	2,800	2,856	2,912	2,968	3,024	3,080	14-1/2
2,115	2,172	2,229	2,286	2,343	2,400	2,457	2,514	2,571	2,628	2,685	2,742	2,799	2,856	2,913	2,970	3,027	3,084	3,141	15
2,202	2,261	2,320	2,379	2,438	2,497	2,556	2,615	2,674	2,733	2,792	2,851	2,910	2,969	3,028	3,087	3,146	3,205	3,264	16
2,289	2,350	2,411	2,472	2,533	2,594	2,655	2,716	2,777	2,838	2,899	2,960	3,021	3,082	3,143	3,204	3,265	3,326	3,387	17
2,376	2,439	2,502	2,565	2,628	2,691	2,754	2,817	2,880	2,943	3,006	3,069	3,132	3,195	3,258	3,321	3,384	3,447	3,510	18
2,463	2,528	2,593	2,658	2,723	2,788	2,853	2,918	2,983	3,048	3,113	3,178	3,243	3,308	3,373	3,438	3,503	3,568	3,633	19
2,550	2,617	2,684	2,751	2,818	2,885	2,952	3,019	3,086	3,153	3,220	3,287	3,354	3,421	3,488	3,555	3,622	3,689	3,756	20
2,637	2,706	2,775	2,844	2,913	2,982	3,051	3,120	3,189	3,258	3,327	3,396	3,465	3,534	3,603	3,672	3,741	3,810	3,879	21
2,724	2,795	2,866	2,937	3,008	3,079	3,150	3,221	3,292	3,363	3,434	3,505	3,576	3,647	3,718	3,789	3,860	3,931	4,002	22
2,811	2,884	2,957	3,030	3,103	3,176	3,249	3,322	3,395	3,468	3,541	3,614	3,687	3,760	3,833	3,906	3,979	4,052	4,125	23
2,898	2,973	3,048	3,123	3,198	3,273	3,348	3,423	3,498	3,573	3,648	3,723	3,798	3,873	3,948	4,023	4,098	4,173	4,248	24
2,985	3,062	3,139	3,216	3,293	3,370	3,447	3,524	3,601	3,678	3,755	3,832	3,909	3,986	4,063	4,140	4,217	4,294	4,371	25
3,072	3,151	3,230	3,309	3,388	3,467	3,546	3,625	3,704	3,783	3,862	3,941	4,020	4,099	4,178	4,257	4,336	4,415	4,494	26
3,159	3,240	3,321	3,402	3,483	3,564	3,645	3,726	3,807	3,888	3,969	4,050	4,131	4,212	4,293	4,374	4,455	4,536	4,617	27
3,246	3,329	3,412	3,495	3,578	3,661	3,744	3,827	3,910	3,993	4,076	4,159	4,242	4,325	4,408	4,491	4,574	4,657	4,740	28
3,333	3,418	3,503	3,588	3,673	3,758	3,843	3,928	4,013	4,098	4,183	4,268	4,353	4,438	4,523	4,608	4,693	4,778	4,863	29

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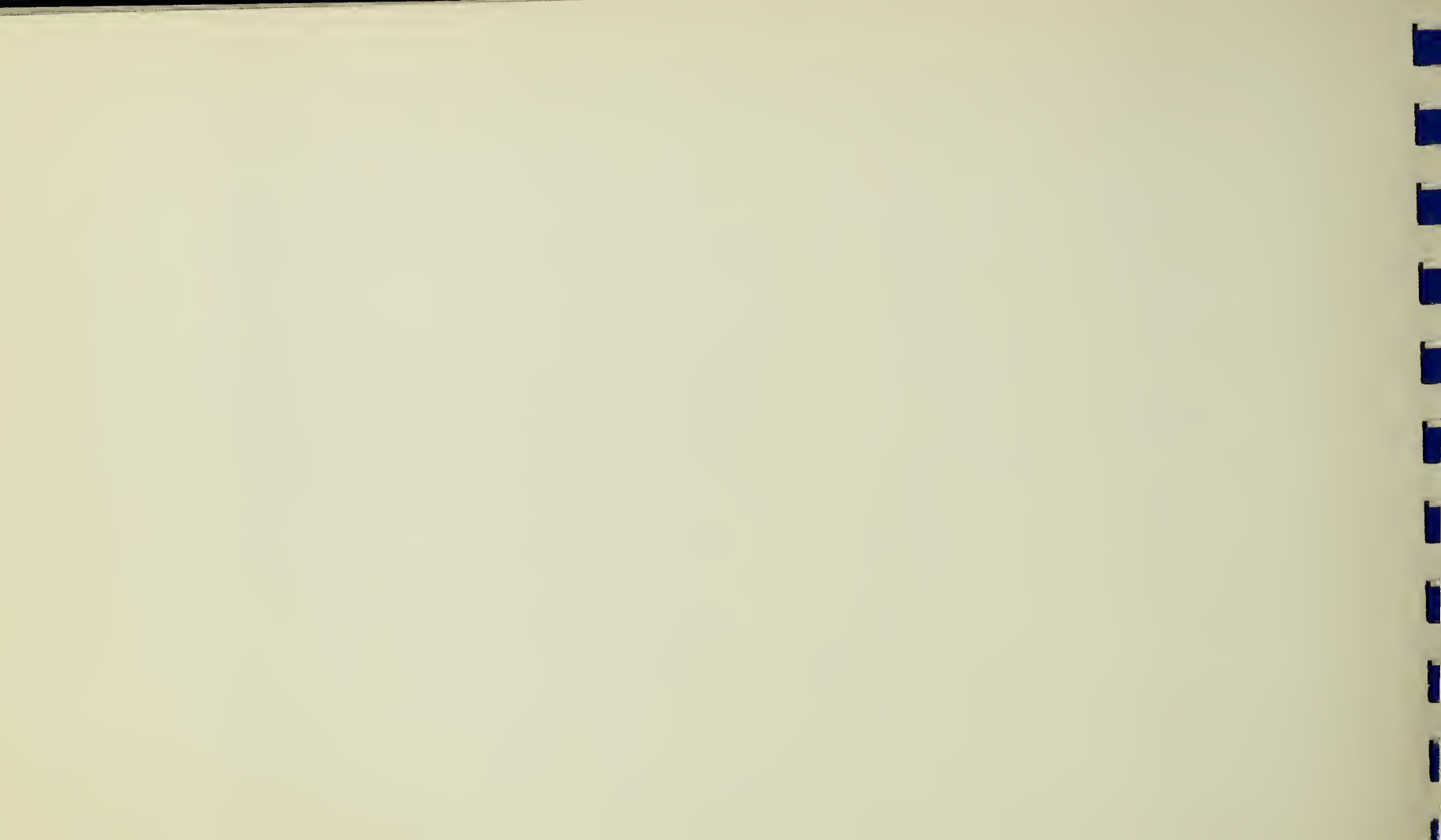


INCHES: →	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
30	3,420	3,507	3,594	3,681	3,768	3,855	3,942	4,029	4,116	4,203	4,290	4,377	4,464	4,551	4,638	4,725	4,812	4,899	4,986
31		3,596	3,685	3,774	3,863	3,952	4,041	4,130	4,219	4,308	4,397	4,486	4,575	4,664	4,753	4,842	4,931	5,020	5,109
32			3,776	3,867	3,958	4,049	4,140	4,231	4,322	4,413	4,504	4,595	4,686	4,777	4,868	4,959	5,050	5,141	5,232
33				3,960	4,053	4,146	4,239	4,332	4,425	4,518	4,611	4,704	4,797	4,890	4,983	5,076	5,169	5,262	5,355
34					4,148	4,243	4,338	4,433	4,528	4,623	4,718	4,813	4,908	5,003	5,098	5,193	5,288	5,383	5,478
35						4,340	4,437	4,534	4,631	4,728	4,825	4,922	5,019	5,116	5,213	5,310	5,407	5,504	5,601
36							4,536	4,635	4,734	4,833	4,932	5,031	5,130	5,229	5,328	5,427	5,526	5,625	5,724
37								4,736	4,837	4,938	5,039	5,140	5,241	5,342	5,443	5,544	5,645	5,746	5,847
38									4,940	5,043	5,146	5,249	5,352	5,455	5,558	5,661	5,764	5,867	5,970
39										5,148	5,253	5,358	5,463	5,568	5,673	5,778	5,883	5,988	6,093
40											5,360	5,467	5,574	5,681	5,788	5,895	6,002	6,109	6,216
41												5,576	5,685	5,794	5,903	6,012	6,121	6,230	6,339
42													5,796	5,907	6,018	6,129	6,240	6,351	6,462
43														6,020	6,133	6,246	6,359	6,472	6,585
44															6,248	6,363	6,478	6,593	6,708
45																6,430	6,597	6,714	6,831
46																	6,716	6,835	6,954
47																		6,956	7,077
48																			7,200

[illegible]

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
2,128	2,184	2,240	2,296	2,352	2,408	2,464	2,520	2,576	2,632	2,688	2,744	2,800	2,856	2,912	2,968	3,024	3,080	14
2,173	2,230	2,287	2,344	2,401	2,458	2,515	2,572	2,629	2,686	2,743	2,800	2,857	2,914	2,971	3,028	3,085	3,142	14-1/2
2,218	2,276	2,334	2,392	2,450	2,508	2,566	2,624	2,682	2,740	2,798	2,856	2,914	2,972	3,030	3,088	3,146	3,204	15
2,308	2,368	2,428	2,488	2,548	2,608	2,668	2,728	2,788	2,848	2,908	2,968	3,028	3,088	3,148	3,208	3,268	3,328	16
2,398	2,460	2,522	2,584	2,646	2,708	2,770	2,832	2,894	2,956	3,018	3,080	3,142	3,204	3,266	3,328	3,390	3,452	17
2,488	2,552	2,616	2,680	2,744	2,808	2,872	2,936	3,000	3,064	3,128	3,192	3,256	3,320	3,384	3,448	3,512	3,576	18
2,578	2,644	2,710	2,776	2,842	2,908	2,974	3,040	3,106	3,172	3,238	3,304	3,370	3,436	3,502	3,568	3,634	3,700	19
2,668	2,736	2,804	2,872	2,940	3,008	3,076	3,144	3,212	3,280	3,348	3,416	3,484	3,552	3,620	3,688	3,756	3,824	20
2,758	2,828	2,898	2,968	3,038	3,108	3,178	3,248	3,318	3,388	3,458	3,528	3,598	3,668	3,738	3,808	3,878	3,948	21
2,848	2,920	2,992	3,064	3,136	3,208	3,280	3,352	3,424	3,496	3,568	3,640	3,712	3,784	3,856	3,928	4,000	4,072	22
2,938	3,012	3,086	3,160	3,234	3,308	3,382	3,456	3,530	3,604	3,678	3,752	3,826	3,900	3,974	4,048	4,122	4,196	23
3,028	3,104	3,180	3,256	3,332	3,408	3,484	3,560	3,636	3,712	3,788	3,864	3,940	4,016	4,092	4,168	4,244	4,320	24
3,118	3,196	3,274	3,352	3,430	3,508	3,586	3,664	3,742	3,820	3,898	3,976	4,054	4,132	4,210	4,288	4,366	4,444	25
3,208	3,288	3,368	3,448	3,528	3,608	3,688	3,768	3,848	3,928	4,008	4,088	4,168	4,248	4,328	4,408	4,488	4,568	26
3,298	3,380	3,462	3,544	3,626	3,708	3,790	3,872	3,954	4,036	4,118	4,200	4,282	4,364	4,446	4,528	4,610	4,692	27
3,388	3,472	3,556	3,640	3,724	3,808	3,892	3,976	4,060	4,144	4,228	4,312	4,396	4,480	4,564	4,648	4,732	4,816	28
3,478	3,564	3,650	3,736	3,822	3,908	3,994	4,080	4,166	4,252	4,338	4,424	4,510	4,596	4,682	4,768	4,854	4,940	29
3,568	3,656	3,744	3,832	3,920	4,008	4,096	4,184	4,272	4,360	4,448	4,536	4,624	4,712	4,800	4,888	4,976	5,064	30





INCHES →	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
31	3,658	3,748	3,838	3,928	4,018	4,108	4,198	4,288	4,378	4,468	4,558	4,648	4,738	4,828	4,918	5,008	5,098	5,188
32		3,840	3,932	4,024	4,116	4,208	4,300	4,392	4,484	4,576	4,668	4,760	4,852	4,944	5,036	5,128	5,220	5,312
33			4,026	4,120	4,214	4,308	4,402	4,496	4,590	4,684	4,778	4,872	4,966	5,060	5,154	5,248	5,342	5,436
34				4,216	4,312	4,408	4,504	4,600	4,696	4,792	4,888	4,984	5,080	5,176	5,272	5,368	5,464	5,560
35					4,410	4,508	4,606	4,704	4,802	4,900	4,998	5,096	5,194	5,292	5,390	5,488	5,586	5,684
36						4,608	4,708	4,808	4,908	5,008	5,108	5,208	5,308	5,408	5,508	5,608	5,708	5,808
37							4,810	4,912	5,014	5,116	5,218	5,320	5,422	5,524	5,626	5,728	5,830	5,932
38								5,016	5,120	5,224	5,328	5,432	5,536	5,640	5,744	5,848	5,952	6,056
39									5,226	5,332	5,438	5,544	5,650	5,756	5,862	5,968	6,074	6,180
40										5,440	5,548	5,656	5,764	5,872	5,980	6,088	6,196	6,304
41											5,658	5,768	5,878	5,988	6,098	6,208	6,318	6,428
42												5,880	5,992	6,104	6,216	6,328	6,440	6,552
43													6,106	6,220	6,334	6,448	6,562	6,676
44														6,336	6,452	6,568	6,684	6,800
45															6,570	6,688	6,806	6,924
46																6,808	6,928	7,048
47																	7,050	7,172
48																		7,296

INCHES	14-1/2	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
14-1/2	1,262	1,291	1,349	1,407	1,465	1,523	1,581	1,639	1,697	1,755	1,813	1,871	1,929	1,987	2,045	2,103	2,161
15		1,320	1,379	1,438	1,497	1,556	1,615	1,674	1,733	1,792	1,851	1,910	1,969	2,028	2,087	2,146	2,205
16			1,440	1,501	1,562	1,623	1,684	1,745	1,806	1,867	1,928	1,989	2,050	2,111	2,172	2,233	2,294
17				1,564	1,627	1,690	1,753	1,816	1,879	1,942	2,005	2,068	2,131	2,194	2,257	2,320	2,383
18					1,692	1,757	1,822	1,887	1,952	2,017	2,082	2,147	2,212	2,277	2,342	2,407	2,472
19						1,824	1,891	1,958	2,025	2,092	2,159	2,226	2,293	2,360	2,427	2,494	2,561
20							1,960	2,029	2,098	2,167	2,236	2,305	2,374	2,443	2,512	2,581	2,650
21								2,100	2,171	2,242	2,313	2,384	2,455	2,526	2,597	2,668	2,739
22									2,244	2,317	2,390	2,463	2,536	2,609	2,682	2,755	2,828
23										2,392	2,467	2,542	2,617	2,692	2,767	2,842	2,917
24											2,544	2,621	2,698	2,775	2,852	2,929	3,006
25												2,700	2,779	2,858	2,937	3,016	3,095
26													2,860	2,941	3,022	3,103	3,184
27														3,024	3,107	3,190	3,273
28															3,192	3,277	3,362
29																3,364	3,451
30																	3,540

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
2,219	2,277	2,335	2,393	2,451	2,509	2,567	2,625	2,683	2,741	2,799	2,857	2,915	2,973	3,031	3,089	3,147	3,205	14-1/2
2,264	2,323	2,382	2,441	2,500	2,559	2,618	2,677	2,736	2,795	2,854	2,913	2,972	3,031	3,090	3,149	3,208	3,267	15
2,355	2,416	2,477	2,538	2,599	2,660	2,721	2,782	2,843	2,904	2,965	3,026	3,087	3,148	3,209	3,270	3,331	3,392	16
2,446	2,509	2,572	2,635	2,698	2,761	2,824	2,887	2,950	3,013	3,076	3,139	3,202	3,265	3,328	3,391	3,454	3,517	17
2,537	2,602	2,667	2,732	2,797	2,862	2,927	2,992	3,057	3,122	3,187	3,252	3,317	3,382	3,447	3,512	3,577	3,642	18
2,628	2,695	2,762	2,829	2,896	2,963	3,030	3,097	3,164	3,231	3,298	3,365	3,432	3,499	3,566	3,633	3,700	3,767	19
2,719	2,788	2,857	2,926	2,995	3,064	3,133	3,202	3,271	3,340	3,409	3,478	3,547	3,616	3,685	3,754	3,823	3,892	20
2,810	2,881	2,952	3,023	3,094	3,165	3,236	3,307	3,378	3,449	3,520	3,591	3,662	3,733	3,804	3,875	3,946	4,017	21
2,901	2,974	3,047	3,120	3,193	3,266	3,339	3,412	3,485	3,558	3,631	3,704	3,777	3,850	3,923	3,996	4,069	4,142	22
2,992	3,067	3,142	3,217	3,292	3,367	3,442	3,517	3,592	3,667	3,742	3,817	3,892	3,967	4,042	4,117	4,192	4,267	23
3,083	3,160	3,237	3,314	3,391	3,468	3,545	3,622	3,699	3,776	3,853	3,930	4,007	4,084	4,161	4,238	4,315	4,392	24
3,174	3,253	3,332	3,411	3,490	3,569	3,648	3,727	3,806	3,885	3,964	4,043	4,122	4,201	4,280	4,359	4,438	4,517	25
3,265	3,346	3,427	3,508	3,589	3,670	3,751	3,832	3,913	3,994	4,075	4,156	4,237	4,318	4,399	4,480	4,561	4,642	26
3,356	3,439	3,522	3,605	3,688	3,771	3,854	3,937	4,020	4,103	4,186	4,269	4,352	4,435	4,518	4,601	4,684	4,767	27
3,447	3,532	3,617	3,702	3,787	3,872	3,957	4,042	4,127	4,212	4,297	4,382	4,467	4,552	4,637	4,722	4,807	4,892	28
3,538	3,625	3,712	3,799	3,886	3,973	4,060	4,147	4,234	4,321	4,408	4,495	4,582	4,669	4,756	4,843	4,930	5,017	29
3,629	3,718	3,807	3,896	3,985	4,074	4,163	4,252	4,341	4,430	4,519	4,608	4,697	4,786	4,875	4,964	5,053	5,142	30

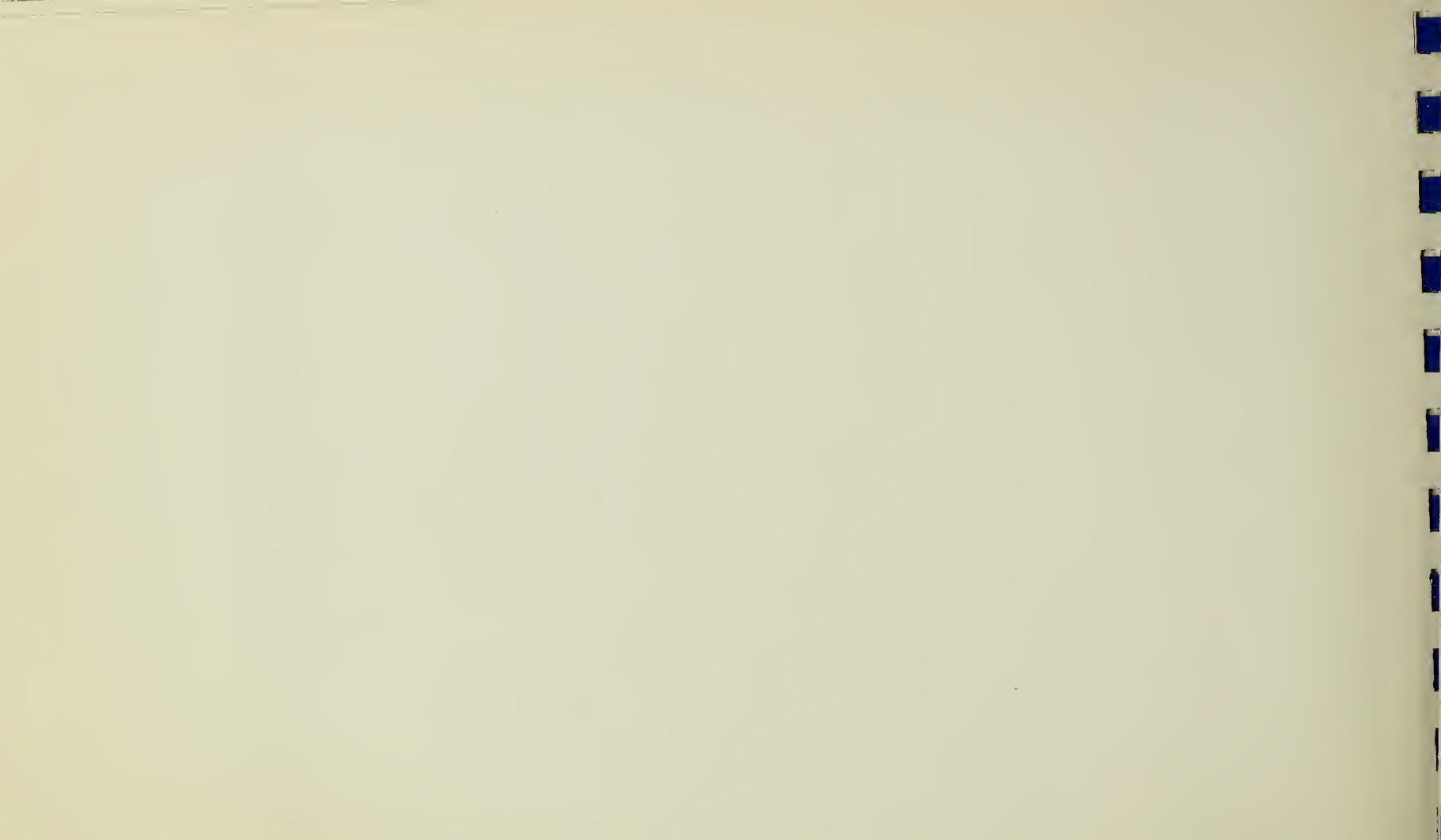




INCHES →	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
31	3,720	3,811	3,902	3,993	4,084	4,175	4,266	4,357	4,448	4,539	4,630	4,721	4,812	4,903	4,994	5,085	5,176	5,267
32		3,904	3,997	4,090	4,183	4,276	4,369	4,462	4,555	4,648	4,741	4,834	4,927	5,020	5,113	5,206	5,299	5,392
33			4,092	4,187	4,282	4,377	4,472	4,567	4,662	4,757	4,852	4,947	5,042	5,137	5,232	5,327	5,422	5,517
34				4,284	4,381	4,478	4,575	4,672	4,769	4,866	4,963	5,060	5,157	5,254	5,351	5,448	5,545	5,642
35					4,480	4,579	4,678	4,777	4,876	4,975	5,074	5,173	5,272	5,371	5,470	5,569	5,668	5,767
36						4,680	4,781	4,882	4,983	5,084	5,185	5,286	5,387	5,488	5,589	5,690	5,791	5,892
37							4,884	4,987	5,090	5,193	5,296	5,399	5,502	5,605	5,708	5,811	5,914	6,017
38								5,092	5,197	5,302	5,407	5,512	5,617	5,722	5,827	5,932	6,037	6,142
39									5,304	5,411	5,518	5,625	5,732	5,839	5,946	6,053	6,160	6,267
40										5,520	5,629	5,738	5,847	5,956	6,065	6,174	6,283	6,392
41											5,740	5,851	5,962	6,073	6,184	6,295	6,406	6,517
42												5,964	6,077	6,190	6,303	6,416	6,529	6,642
43													6,192	6,307	6,422	6,537	6,652	6,767
44														6,424	6,541	6,658	6,775	6,892
45															6,660	6,779	6,898	7,017
46																6,900	7,021	7,142
47																	7,144	7,267
48																		7,392

INCHES →	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
15	1,350	1,410	1,470	1,530	1,590	1,650	1,710	1,770	1,830	1,890	1,950	2,010	2,070	2,130	2,190	2,250	2,310
16		1,472	1,534	1,596	1,658	1,720	1,782	1,844	1,906	1,968	2,030	2,092	2,154	2,216	2,278	2,340	2,402
17			1,598	1,662	1,726	1,790	1,854	1,918	1,982	2,046	2,110	2,174	2,238	2,302	2,366	2,430	2,494
18				1,728	1,794	1,860	1,926	1,992	2,058	2,124	2,190	2,256	2,322	2,388	2,454	2,520	2,586
19					1,862	1,930	1,998	2,066	2,134	2,202	2,270	2,338	2,406	2,474	2,542	2,610	2,678
20						2,000	2,070	2,140	2,210	2,280	2,350	2,420	2,490	2,560	2,630	2,700	2,770
21							2,142	2,214	2,286	2,358	2,430	2,502	2,574	2,646	2,718	2,790	2,862
22								2,288	2,362	2,436	2,510	2,584	2,658	2,732	2,806	2,880	2,954
23									2,438	2,514	2,590	2,666	2,742	2,818	2,894	2,970	3,046
24										2,592	2,670	2,748	2,826	2,904	2,982	3,060	3,138
25											2,750	2,830	2,910	2,990	3,070	3,150	3,230
26												2,912	2,994	3,076	3,158	3,240	3,322
27													3,078	3,162	3,246	3,330	3,414
28														3,248	3,334	3,420	3,506
29															3,422	3,510	3,598
30																3,600	3,690
31																	3,782

32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48 ← INCHES
2,370	2,430	2,490	2,550	2,610	2,670	2,730	2,790	2,850	2,910	2,970	3,030	3,090	3,150	3,210	3,270	3,330 : 15
2,464	2,526	2,588	2,650	2,712	2,774	2,836	2,898	2,960	3,022	3,084	3,146	3,208	3,270	3,332	3,394	3,456 : 16
2,558	2,622	2,686	2,750	2,814	2,878	2,942	3,006	3,070	3,134	3,198	3,262	3,326	3,390	3,454	3,518	3,582 : 17
2,652	2,718	2,784	2,850	2,916	2,982	3,048	3,114	3,180	3,246	3,312	3,378	3,444	3,510	3,576	3,642	3,708 : 18
2,746	2,814	2,882	2,950	3,018	3,086	3,154	3,222	3,290	3,358	3,426	3,494	3,562	3,630	3,698	3,766	3,834 : 19
2,840	2,910	2,980	3,050	3,120	3,190	3,260	3,330	3,400	3,470	3,540	3,610	3,680	3,750	3,820	3,890	3,960 : 20
2,934	3,006	3,078	3,150	3,222	3,294	3,366	3,438	3,510	3,582	3,654	3,726	3,798	3,870	3,942	4,014	4,086 : 21
3,028	3,102	3,176	3,250	3,324	3,398	3,472	3,546	3,620	3,694	3,768	3,842	3,916	3,990	4,064	4,138	4,212 : 22
3,122	3,198	3,274	3,350	3,426	3,502	3,578	3,654	3,730	3,806	3,882	3,958	4,034	4,110	4,186	4,262	4,338 : 23
3,216	3,294	3,372	3,450	3,528	3,606	3,684	3,762	3,840	3,918	3,996	4,074	4,152	4,230	4,308	4,386	4,464 : 24
3,310	3,390	3,470	3,550	3,630	3,710	3,790	3,870	3,950	4,030	4,110	4,190	4,270	4,350	4,430	4,510	4,590 : 25
3,404	3,486	3,568	3,650	3,732	3,814	3,896	3,978	4,060	4,142	4,224	4,306	4,388	4,470	4,552	4,634	4,716 : 26
3,498	3,582	3,666	3,750	3,834	3,918	4,002	4,086	4,170	4,254	4,338	4,422	4,506	4,590	4,674	4,758	4,842 : 27
3,592	3,678	3,764	3,850	3,936	4,022	4,108	4,194	4,280	4,366	4,452	4,538	4,624	4,710	4,796	4,882	4,968 : 28
3,686	3,774	3,862	3,950	4,038	4,126	4,214	4,302	4,390	4,478	4,566	4,654	4,742	4,830	4,918	5,006	5,094 : 29
3,780	3,870	3,960	4,050	4,140	4,230	4,320	4,410	4,500	4,590	4,680	4,770	4,860	4,950	5,040	5,130	5,220 : 30
3,874	3,966	4,058	4,150	4,242	4,334	4,426	4,518	4,610	4,702	4,794	4,886	4,978	5,070	5,162	5,254	5,346 : 31

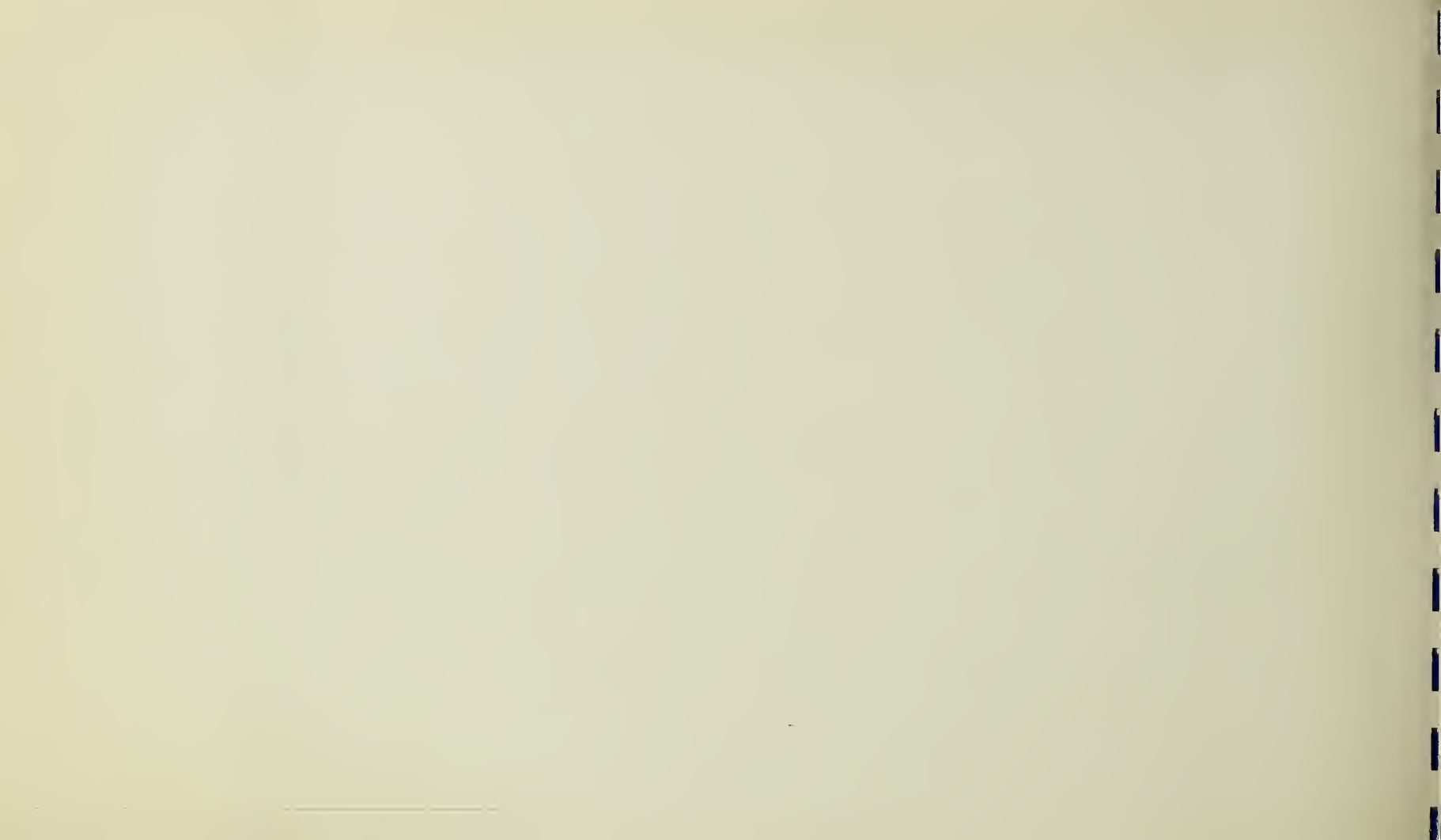


INCHES →	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
32	3,968	4,062	4,156	4,250	4,344	4,438	4,532	4,626	4,720	4,814	4,908	5,002	5,096	5,190	5,284	5,378	5,472
33		4,158	4,254	4,350	4,446	4,542	4,638	4,734	4,830	4,926	5,022	5,118	5,214	5,310	5,406	5,502	5,598
34			4,352	4,450	4,548	4,646	4,744	4,842	4,940	5,038	5,136	5,234	5,332	5,430	5,528	5,626	5,724
35				4,550	4,650	4,750	4,850	4,950	5,050	5,150	5,250	5,350	5,450	5,550	5,650	5,750	5,850
36					4,752	4,854	4,956	5,058	5,160	5,262	5,364	5,466	5,568	5,670	5,772	5,874	5,976
37						4,958	5,062	5,166	5,270	5,374	5,478	5,582	5,686	5,790	5,894	5,998	6,102
38							5,168	5,274	5,380	5,486	5,592	5,698	5,804	5,910	6,016	6,122	6,228
39								5,382	5,490	5,598	5,706	5,814	5,922	6,030	6,138	6,246	6,354
40									5,600	5,710	5,820	5,930	6,040	6,150	6,260	6,370	6,480
41										5,822	5,934	6,046	6,158	6,270	6,382	6,494	6,606
42											6,048	6,162	6,276	6,390	6,504	6,618	6,732
43												6,278	6,394	6,510	6,626	6,742	6,858
44													6,512	6,630	6,748	6,866	6,984
45														6,750	6,870	6,990	7,110
46															6,992	7,114	7,236
47																7,238	7,362
48																	7,486



INCHES: →	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
16	1,536	1,600	1,664	1,728	1,792	1,856	1,920	1,984	2,048	2,112	2,176	2,240	2,304	2,368	2,432	2,496
17		1,666	1,732	1,798	1,864	1,930	1,996	2,062	2,128	2,194	2,260	2,326	2,392	2,458	2,524	2,590
18			1,800	1,868	1,936	2,004	2,072	2,140	2,208	2,276	2,344	2,412	2,480	2,548	2,616	2,684
19				1,938	2,008	2,078	2,148	2,218	2,288	2,358	2,428	2,498	2,568	2,638	2,708	2,778
20					2,080	2,152	2,224	2,296	2,368	2,440	2,512	2,584	2,656	2,728	2,800	2,872
21						2,226	2,300	2,374	2,448	2,522	2,596	2,670	2,744	2,818	2,892	2,966
22							2,376	2,452	2,528	2,604	2,680	2,756	2,832	2,908	2,984	3,060
23								2,530	2,608	2,686	2,764	2,842	2,920	2,998	3,076	3,154
24									2,688	2,768	2,848	2,928	3,008	3,088	3,168	3,248
25										2,850	2,932	3,014	3,096	3,178	3,260	3,342
26											3,016	3,100	3,184	3,268	3,352	3,436
27												3,186	3,272	3,358	3,444	3,530
28													3,360	3,448	3,536	3,624
29														3,538	3,628	3,718
30															3,720	3,812
31																3,906

32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
2,560	2,624	2,688	2,752	2,816	2,880	2,944	3,008	3,072	3,136	3,200	3,264	3,328	3,392	3,456	3,520	3,584	16
2,656	2,722	2,788	2,854	2,920	2,986	3,052	3,118	3,184	3,250	3,316	3,382	3,448	3,514	3,580	3,646	3,712	17
2,752	2,820	2,888	2,956	3,024	3,092	3,160	3,228	3,296	3,364	3,432	3,500	3,568	3,636	3,704	3,772	3,840	18
2,848	2,918	2,988	3,058	3,128	3,198	3,268	3,338	3,408	3,478	3,548	3,618	3,688	3,758	3,828	3,898	3,968	19
2,944	3,016	3,088	3,160	3,232	3,304	3,376	3,448	3,520	3,592	3,664	3,736	3,808	3,880	3,952	4,024	4,096	20
3,040	3,114	3,188	3,262	3,336	3,410	3,484	3,558	3,632	3,706	3,780	3,854	3,928	4,002	4,076	4,150	4,224	21
3,136	3,212	3,288	3,364	3,440	3,516	3,592	3,668	3,744	3,820	3,896	3,972	4,048	4,124	4,200	4,276	4,352	22
3,232	3,310	3,388	3,466	3,544	3,622	3,700	3,778	3,856	3,934	4,012	4,090	4,168	4,246	4,324	4,402	4,480	23
3,328	3,408	3,488	3,568	3,648	3,728	3,808	3,888	3,968	4,048	4,128	4,208	4,288	4,368	4,448	4,528	4,608	24
3,424	3,506	3,588	3,670	3,752	3,834	3,916	3,998	4,080	4,162	4,244	4,326	4,408	4,490	4,572	4,654	4,736	25
3,520	3,604	3,688	3,772	3,856	3,940	4,024	4,108	4,192	4,276	4,360	4,444	4,528	4,612	4,696	4,780	4,864	26
3,616	3,702	3,788	3,874	3,960	4,046	4,132	4,218	4,304	4,390	4,476	4,562	4,648	4,734	4,820	4,906	4,992	27
3,712	3,800	3,888	3,976	4,064	4,152	4,240	4,328	4,416	4,504	4,592	4,680	4,768	4,856	4,944	5,032	5,120	28
3,808	3,898	3,988	4,078	4,168	4,258	4,348	4,438	4,528	4,618	4,708	4,798	4,888	4,978	5,068	5,158	5,248	29
3,904	3,996	4,088	4,180	4,272	4,364	4,456	4,548	4,640	4,732	4,824	4,916	5,008	5,100	5,192	5,284	5,376	30
4,000	4,094	4,188	4,282	4,376	4,470	4,564	4,658	4,752	4,846	4,940	5,034	5,128	5,222	5,316	5,410	5,504	31



INCHES →	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
32	: 4,096	: 4,192	: 4,288	: 4,384	: 4,480	: 4,576	: 4,672	: 4,768	: 4,864	: 4,960	: 5,056	: 5,152	: 5,248	: 5,344	: 5,440	: 5,536	: 5,632
33	:	: 4,290	: 4,388	: 4,486	: 4,584	: 4,682	: 4,780	: 4,878	: 4,976	: 5,074	: 5,172	: 5,270	: 5,368	: 5,466	: 5,564	: 5,662	: 5,760
34	:	:	: 4,488	: 4,588	: 4,688	: 4,788	: 4,888	: 4,988	: 5,088	: 5,188	: 5,288	: 5,388	: 5,488	: 5,588	: 5,688	: 5,788	: 5,888
35	:	:	:	: 4,690	: 4,792	: 4,894	: 4,996	: 5,098	: 5,200	: 5,302	: 5,404	: 5,506	: 5,608	: 5,710	: 5,812	: 5,914	: 6,016
36	:	:	:	:	: 4,896	: 5,000	: 5,104	: 5,208	: 5,312	: 5,416	: 5,520	: 5,624	: 5,728	: 5,832	: 5,936	: 6,040	: 6,144
37	:	:	:	:	:	: 5,106	: 5,212	: 5,318	: 5,424	: 5,530	: 5,636	: 5,742	: 5,848	: 5,954	: 6,060	: 6,166	: 6,272
38	:	:	:	:	:	:	: 5,320	: 5,428	: 5,536	: 5,644	: 5,752	: 5,860	: 5,968	: 6,076	: 6,184	: 6,292	: 6,400
39	:	:	:	:	:	:	:	: 5,538	: 5,648	: 5,758	: 5,868	: 5,978	: 6,088	: 6,198	: 6,308	: 6,418	: 6,528
40	:	:	:	:	:	:	:	:	: 5,760	: 5,872	: 5,984	: 6,096	: 6,208	: 6,320	: 6,432	: 6,544	: 6,656
41	:	:	:	:	:	:	:	:	:	: 5,986	: 6,100	: 6,214	: 6,328	: 6,442	: 6,556	: 6,670	: 6,784
42	:	:	:	:	:	:	:	:	:	:	: 6,216	: 6,332	: 6,448	: 6,564	: 6,680	: 6,796	: 6,912
43	:	:	:	:	:	:	:	:	:	:	:	: 6,450	: 6,568	: 6,686	: 6,804	: 6,922	: 7,040
44	:	:	:	:	:	:	:	:	:	:	:	:	: 6,688	: 6,808	: 6,928	: 7,048	: 7,168
45	:	:	:	:	:	:	:	:	:	:	:	:	:	: 6,930	: 7,052	: 7,174	: 7,296
46	:	:	:	:	:	:	:	:	:	:	:	:	:	:	: 7,176	: 7,300	: 7,424
47	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	: 7,426	: 7,552
48	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	: 7,680

INCHES →	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
17	1,734	1,802	1,870	1,938	2,006	2,074	2,142	2,210	2,278	2,346	2,414	2,482	2,550	2,618	2,686	2,754
18		1,872	1,942	2,012	2,082	2,152	2,222	2,292	2,362	2,432	2,502	2,572	2,642	2,712	2,782	2,852
19			2,014	2,086	2,158	2,230	2,302	2,374	2,446	2,518	2,590	2,662	2,734	2,806	2,878	2,950
20				2,160	2,234	2,308	2,382	2,456	2,530	2,604	2,678	2,752	2,826	2,900	2,974	3,048
21					2,310	2,386	2,462	2,538	2,614	2,690	2,766	2,842	2,918	2,994	3,070	3,146
22						2,464	2,542	2,620	2,698	2,776	2,854	2,932	3,010	3,088	3,166	3,244
23							2,622	2,702	2,782	2,862	2,942	3,022	3,102	3,182	3,262	3,342
24								2,784	2,866	2,948	3,030	3,112	3,194	3,276	3,358	3,440
25									2,950	3,034	3,118	3,202	3,286	3,370	3,454	3,538
26										3,120	3,206	3,292	3,378	3,464	3,550	3,636
27											3,294	3,382	3,470	3,558	3,646	3,734
28												3,472	3,562	3,652	3,742	3,832
29													3,654	3,746	3,838	3,930
30														3,840	3,934	4,028
31															4,030	4,126
32																4,224



33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
2,822	2,890	2,958	3,026	3,094	3,162	3,230	3,298	3,366	3,434	3,502	3,570	3,638	3,706	3,774	3,842	17
2,922	2,992	3,062	3,132	3,202	3,272	3,342	3,412	3,482	3,552	3,622	3,692	3,762	3,832	3,902	3,972	18
3,022	3,094	3,166	3,238	3,310	3,382	3,454	3,526	3,598	3,670	3,742	3,814	3,886	3,958	4,030	4,102	19
3,122	3,196	3,270	3,344	3,418	3,492	3,566	3,640	3,714	3,788	3,862	3,936	4,010	4,084	4,158	4,232	20
3,222	3,298	3,374	3,450	3,526	3,602	3,678	3,754	3,830	3,906	3,982	4,058	4,134	4,210	4,286	4,362	21
3,322	3,400	3,478	3,556	3,634	3,712	3,790	3,868	3,946	4,024	4,102	4,180	4,258	4,336	4,414	4,492	22
3,422	3,502	3,582	3,662	3,742	3,822	3,902	3,982	4,062	4,142	4,222	4,302	4,382	4,462	4,542	4,622	23
3,522	3,604	3,686	3,768	3,850	3,932	4,014	4,096	4,178	4,260	4,342	4,424	4,506	4,588	4,670	4,752	24
3,622	3,706	3,790	3,874	3,958	4,042	4,126	4,210	4,294	4,378	4,462	4,546	4,630	4,714	4,798	4,882	25
3,722	3,808	3,894	3,980	4,066	4,152	4,238	4,324	4,410	4,496	4,582	4,668	4,754	4,840	4,926	5,012	26
3,822	3,910	3,998	4,086	4,174	4,262	4,350	4,438	4,526	4,614	4,702	4,790	4,878	4,966	5,054	5,142	27
3,922	4,012	4,102	4,192	4,282	4,372	4,462	4,552	4,642	4,732	4,822	4,912	5,002	5,092	5,182	5,272	28
4,022	4,114	4,206	4,298	4,390	4,482	4,574	4,666	4,758	4,850	4,942	5,034	5,126	5,218	5,310	5,402	29
4,122	4,216	4,310	4,404	4,498	4,592	4,686	4,780	4,874	4,968	5,062	5,156	5,250	5,344	5,438	5,532	30
4,222	4,318	4,414	4,510	4,606	4,702	4,798	4,894	4,990	5,086	5,182	5,278	5,374	5,470	5,566	5,662	31
4,322	4,420	4,518	4,616	4,714	4,812	4,910	5,008	5,106	5,204	5,302	5,400	5,498	5,596	5,694	5,792	32



INCHES →	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
33	4,422	4,522	4,622	4,722	4,822	4,922	5,022	5,122	5,222	5,322	5,422	5,522	5,622	5,722	5,822	5,922
34		4,624	4,726	4,828	4,930	5,032	5,134	5,236	5,338	5,440	5,542	5,644	5,746	5,848	5,950	6,052
35			4,830	4,934	5,038	5,142	5,246	5,350	5,454	5,558	5,662	5,766	5,870	5,974	6,078	6,182
36				5,040	5,146	5,252	5,358	5,464	5,570	5,676	5,782	5,888	5,994	6,100	6,206	6,312
37					5,254	5,362	5,470	5,578	5,686	5,794	5,902	6,010	6,118	6,226	6,334	6,442
38						5,472	5,582	5,692	5,802	5,912	6,022	6,132	6,242	6,352	6,462	6,572
39							5,694	5,806	5,918	6,030	6,142	6,254	6,366	6,478	6,590	6,702
40								5,920	6,034	6,148	6,262	6,376	6,490	6,604	6,718	6,832
41									6,150	6,266	6,382	6,498	6,614	6,730	6,846	6,962
42										6,384	6,502	6,620	6,738	6,856	6,974	7,092
43											6,622	6,742	6,862	6,982	7,102	7,222
44												6,864	6,986	7,108	7,230	7,352
45													7,110	7,234	7,358	7,482
46														7,360	7,486	7,612
47															7,614	7,742
48																7,872

INCHES →	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
18	1,944	2,016	2,088	2,160	2,232	2,304	2,376	2,448	2,520	2,592	2,664	2,736	2,808	2,880	2,952
19		2,090	2,164	2,238	2,312	2,386	2,460	2,534	2,608	2,682	2,756	2,830	2,904	2,978	3,052
20			2,240	2,316	2,392	2,468	2,544	2,620	2,696	2,772	2,848	2,924	3,000	3,076	3,152
21				2,394	2,472	2,550	2,628	2,706	2,784	2,862	2,940	3,018	3,096	3,174	3,252
22					2,552	2,632	2,712	2,792	2,872	2,952	3,032	3,112	3,192	3,272	3,352
23						2,714	2,796	2,878	2,960	3,042	3,124	3,206	3,288	3,370	3,452
24							2,880	2,964	3,048	3,132	3,216	3,300	3,384	3,468	3,552
25								3,050	3,136	3,222	3,308	3,394	3,480	3,566	3,652
26									3,224	3,312	3,400	3,488	3,576	3,664	3,752
27										3,402	3,492	3,582	3,672	3,762	3,852
28											3,584	3,676	3,768	3,860	3,952
29												3,770	3,864	3,958	4,052
30													3,960	4,056	4,152
31														4,154	4,252
32															4,352

33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
3,024	3,096	3,168	3,240	3,312	3,384	3,456	3,528	3,600	3,672	3,744	3,816	3,888	3,960	4,032	4,104	18
3,126	3,200	3,274	3,348	3,422	3,496	3,570	3,644	3,718	3,792	3,866	3,940	4,014	4,088	4,162	4,236	19
3,228	3,304	3,380	3,456	3,532	3,608	3,684	3,760	3,836	3,912	3,988	4,064	4,140	4,216	4,292	4,368	20
3,330	3,408	3,486	3,564	3,642	3,720	3,798	3,876	3,954	4,032	4,110	4,188	4,266	4,344	4,422	4,500	21
3,432	3,512	3,592	3,672	3,752	3,832	3,912	3,992	4,072	4,152	4,232	4,312	4,392	4,472	4,552	4,632	22
3,534	3,616	3,698	3,780	3,862	3,944	4,026	4,108	4,190	4,272	4,354	4,436	4,518	4,600	4,682	4,764	23
3,636	3,720	3,804	3,888	3,972	4,056	4,140	4,224	4,308	4,392	4,476	4,560	4,644	4,728	4,812	4,896	24
3,738	3,824	3,910	3,996	4,082	4,168	4,254	4,340	4,426	4,512	4,598	4,684	4,770	4,856	4,942	5,028	25
3,840	3,928	4,016	4,104	4,192	4,280	4,368	4,456	4,544	4,632	4,720	4,808	4,896	4,984	5,072	5,160	26
3,942	4,032	4,122	4,212	4,302	4,392	4,482	4,572	4,662	4,752	4,842	4,932	5,022	5,112	5,202	5,292	27
4,044	4,136	4,228	4,320	4,412	4,504	4,596	4,688	4,780	4,872	4,964	5,056	5,148	5,240	5,332	5,424	28
4,146	4,240	4,334	4,428	4,522	4,616	4,710	4,804	4,898	4,992	5,086	5,180	5,274	5,368	5,462	5,556	29
4,248	4,344	4,440	4,536	4,632	4,728	4,824	4,920	5,016	5,112	5,208	5,304	5,400	5,496	5,592	5,688	30
4,350	4,448	4,546	4,644	4,742	4,840	4,938	5,036	5,134	5,232	5,330	5,428	5,526	5,624	5,722	5,820	31
4,452	4,552	4,652	4,752	4,852	4,952	5,052	5,152	5,252	5,352	5,452	5,552	5,652	5,752	5,852	5,952	32





INCHES →	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
33	4,554	4,656	4,758	4,860	4,962	5,064	5,166	5,268	5,370	5,472	5,574	5,676	5,778	5,880	5,982	6,084
34		4,760	4,864	4,968	5,072	5,176	5,280	5,384	5,488	5,592	5,696	5,800	5,904	6,008	6,112	6,216
35			4,970	5,076	5,182	5,288	5,394	5,500	5,606	5,712	5,818	5,924	6,030	6,136	6,242	6,348
36				5,184	5,292	5,400	5,508	5,616	5,724	5,832	5,940	6,048	6,156	6,264	6,372	6,480
37					5,402	5,512	5,622	5,732	5,842	5,952	6,062	6,172	6,282	6,392	6,502	6,612
38						5,624	5,736	5,848	5,960	6,072	6,184	6,296	6,408	6,520	6,632	6,744
39							5,850	5,964	6,078	6,192	6,306	6,420	6,534	6,648	6,762	6,876
40								6,080	6,196	6,312	6,428	6,544	6,660	6,776	6,892	7,008
41									6,314	6,432	6,550	6,668	6,786	6,904	7,022	7,140
42										6,552	6,672	6,792	6,912	7,032	7,152	7,272
43											6,794	6,916	7,038	7,160	7,282	7,404
44												7,040	7,164	7,288	7,412	7,536
45													7,290	7,416	7,542	7,668
46														7,544	7,672	7,800
47															7,802	7,932
48																8,064

INCHES →	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
19	2,166	2,242	2,318	2,394	2,470	2,546	2,622	2,698	2,774	2,850	2,926	3,002	3,078	3,154	3,230
20		2,320	2,398	2,476	2,554	2,632	2,710	2,788	2,866	2,944	3,022	3,100	3,178	3,256	3,334
21			2,478	2,558	2,638	2,718	2,798	2,878	2,958	3,038	3,118	3,198	3,278	3,358	3,438
22				2,640	2,722	2,804	2,886	2,968	3,050	3,132	3,214	3,296	3,378	3,460	3,542
23					2,806	2,890	2,974	3,058	3,142	3,226	3,310	3,394	3,478	3,562	3,646
24						2,976	3,062	3,148	3,234	3,320	3,406	3,492	3,578	3,664	3,750
25							3,150	3,238	3,326	3,414	3,502	3,590	3,678	3,766	3,854
26								3,328	3,418	3,508	3,598	3,688	3,778	3,868	3,958
27									3,510	3,602	3,694	3,786	3,878	3,970	4,062
28										3,696	3,790	3,884	3,978	4,072	4,166
29											3,886	3,982	4,078	4,174	4,270
30												4,080	4,178	4,276	4,374
31													4,278	4,378	4,478
32														4,480	4,582
33															4,686

34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
3,306	3,382	3,458	3,534	3,610	3,686	3,762	3,838	3,914	3,990	4,066	4,142	4,218	4,294	4,370	19
3,412	3,490	3,568	3,646	3,724	3,802	3,880	3,958	4,036	4,114	4,192	4,270	4,348	4,426	4,504	20
3,518	3,598	3,678	3,758	3,838	3,918	3,998	4,078	4,158	4,238	4,318	4,398	4,478	4,558	4,638	21
3,624	3,706	3,788	3,870	3,952	4,034	4,116	4,198	4,280	4,362	4,444	4,526	4,608	4,690	4,772	22
3,730	3,814	3,898	3,982	4,066	4,150	4,234	4,318	4,402	4,486	4,570	4,654	4,738	4,822	4,906	23
3,836	3,922	4,008	4,094	4,180	4,266	4,352	4,438	4,524	4,610	4,696	4,782	4,868	4,954	5,040	24
3,942	4,030	4,118	4,206	4,294	4,382	4,470	4,558	4,646	4,734	4,822	4,910	4,998	5,086	5,174	25
4,048	4,138	4,228	4,318	4,408	4,498	4,588	4,678	4,768	4,858	4,948	5,038	5,128	5,218	5,308	26
4,154	4,246	4,338	4,430	4,522	4,614	4,706	4,798	4,890	4,982	5,074	5,166	5,258	5,350	5,442	27
4,260	4,354	4,448	4,542	4,636	4,730	4,824	4,918	5,012	5,106	5,200	5,294	5,388	5,482	5,576	28
4,366	4,462	4,558	4,654	4,750	4,846	4,942	5,038	5,134	5,230	5,326	5,422	5,518	5,614	5,710	29
4,472	4,570	4,668	4,766	4,864	4,962	5,060	5,158	5,256	5,354	5,452	5,550	5,648	5,746	5,844	30
4,578	4,678	4,778	4,878	4,978	5,078	5,178	5,278	5,378	5,478	5,578	5,678	5,778	5,878	5,978	31
4,684	4,786	4,888	4,990	5,092	5,194	5,296	5,398	5,500	5,602	5,704	5,806	5,908	6,010	6,112	32
4,790	4,894	4,998	5,102	5,206	5,310	5,414	5,518	5,622	5,726	5,830	5,934	6,038	6,142	6,246	33





INCHES →	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
34	4,896	5,002	5,108	5,214	5,320	5,426	5,532	5,638	5,744	5,850	5,956	6,062	6,168	6,274	6,380
35		5,110	5,218	5,326	5,434	5,542	5,650	5,758	5,866	5,974	6,082	6,190	6,298	6,406	6,514
36			5,328	5,438	5,548	5,658	5,768	5,878	5,988	6,098	6,208	6,318	6,428	6,538	6,648
37				5,550	5,662	5,774	5,886	5,998	6,110	6,222	6,334	6,446	6,558	6,670	6,782
38					5,776	5,890	6,004	6,118	6,232	6,346	6,460	6,574	6,688	6,802	6,916
39						6,006	6,122	6,238	6,354	6,470	6,586	6,702	6,818	6,934	7,050
40							6,240	6,358	6,476	6,594	6,712	6,830	6,948	7,066	7,184
41								6,478	6,598	6,718	6,838	6,958	7,078	7,198	7,318
42									6,720	6,842	6,964	7,086	7,208	7,330	7,452
43										6,966	7,090	7,214	7,338	7,462	7,586
44											7,216	7,342	7,468	7,594	7,720
45												7,470	7,598	7,726	7,854
46													7,728	7,858	7,988
47														7,990	8,122
48															8,256

INCHES →	20	21	22	23	24	25	26	27	28	29	30	31	32	33
↓														
20	2,400	2,480	2,560	2,640	2,720	2,800	2,880	2,960	3,040	3,120	3,200	3,280	3,360	3,440
21		2,562	2,644	2,726	2,808	2,890	2,972	3,054	3,136	3,218	3,300	3,382	3,464	3,546
22			2,728	2,812	2,896	2,980	3,064	3,148	3,232	3,316	3,400	3,484	3,568	3,652
23				2,898	2,984	3,070	3,156	3,242	3,328	3,414	3,500	3,586	3,672	3,758
24					3,072	3,160	3,248	3,336	3,424	3,512	3,600	3,688	3,776	3,864
25						3,250	3,340	3,430	3,520	3,610	3,700	3,790	3,880	3,970
26							3,432	3,524	3,616	3,708	3,800	3,892	3,984	4,076
27								3,618	3,712	3,806	3,900	3,994	4,088	4,182
29									3,808	3,904	4,000	4,096	4,192	4,288
29										4,002	4,100	4,198	4,296	4,394
30											4,200	4,300	4,400	4,500
31												4,402	4,504	4,606
32													4,608	4,712
32														4,818

34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
3,520	3,600	3,680	3,760	3,840	3,920	4,000	4,080	4,160	4,240	4,320	4,400	4,480	4,560	4,640	20
3,628	3,710	3,792	3,874	3,956	4,038	4,120	4,202	4,284	4,366	4,448	4,530	4,612	4,694	4,776	21
3,736	3,820	3,904	3,988	4,072	4,156	4,240	4,324	4,408	4,492	4,576	4,660	4,744	4,828	4,912	22
3,844	3,930	4,016	4,102	4,188	4,274	4,360	4,446	4,532	4,618	4,704	4,790	4,876	4,962	5,048	23
3,952	4,040	4,128	4,216	4,304	4,392	4,480	4,568	4,656	4,744	4,832	4,920	5,008	5,096	5,184	24
4,060	4,150	4,240	4,330	4,420	4,510	4,600	4,690	4,780	4,870	4,960	5,050	5,140	5,230	5,320	25
4,168	4,260	4,352	4,444	4,536	4,628	4,720	4,812	4,904	4,996	5,088	5,180	5,272	5,364	5,456	26
4,276	4,370	4,464	4,558	4,652	4,746	4,840	4,934	5,028	5,122	5,216	5,310	5,404	5,498	5,592	27
4,384	4,480	4,576	4,672	4,768	4,864	4,960	5,056	5,152	5,248	5,344	5,440	5,536	5,632	5,728	28
4,492	4,590	4,688	4,786	4,884	4,982	5,080	5,178	5,276	5,374	5,472	5,570	5,668	5,766	5,864	29
4,600	4,700	4,800	4,900	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900	6,000	30
4,708	4,810	4,912	5,014	5,116	5,218	5,320	5,422	5,524	5,626	5,728	5,830	5,932	6,034	6,136	31
4,816	4,920	5,024	5,128	5,232	5,336	5,440	5,544	5,648	5,752	5,856	5,960	6,064	6,168	6,272	32
4,924	5,030	5,136	5,242	5,348	5,454	5,560	5,666	5,772	5,878	5,984	6,090	6,196	6,302	6,408	33

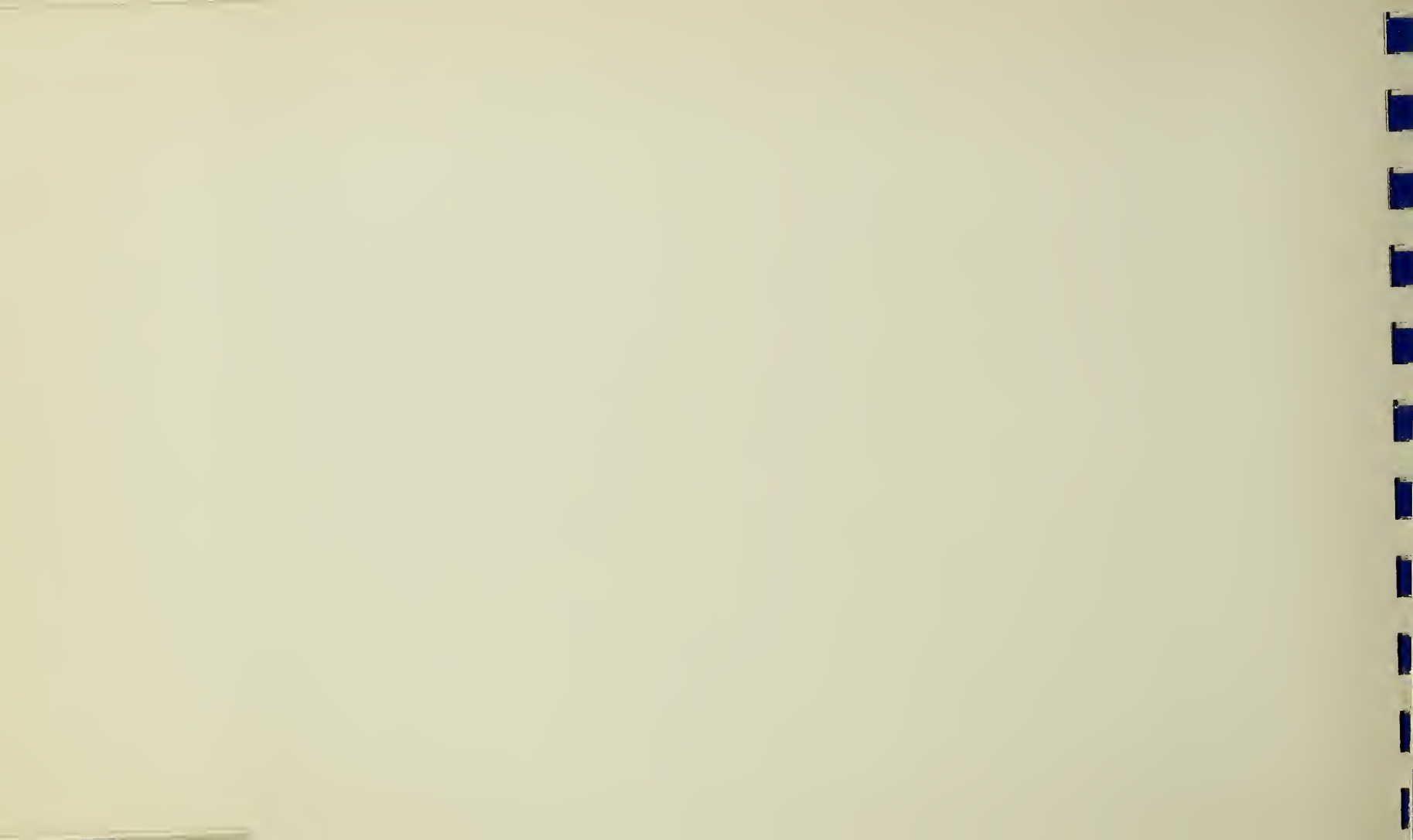


INCHES →	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
34	5,032	5,140	5,248	5,356	5,464	5,572	5,680	5,788	5,896	6,004	6,112	6,220	6,328	6,436	6,544
35		5,250	5,360	5,470	5,580	5,690	5,800	5,910	6,020	6,130	6,240	6,350	6,460	6,570	6,680
36			5,472	5,584	5,696	5,808	5,920	6,032	6,144	6,256	6,368	6,480	6,592	6,704	6,816
37				5,698	5,812	5,926	6,040	6,154	6,268	6,382	6,496	6,610	6,724	6,838	6,952
38					5,928	6,044	6,160	6,276	6,392	6,508	6,624	6,740	6,856	6,972	7,088
39						6,162	6,280	6,398	6,516	6,634	6,752	6,870	6,988	7,106	7,224
40							6,400	6,520	6,640	6,760	6,880	7,000	7,120	7,240	7,360
41								6,642	6,764	6,886	7,008	7,130	7,252	7,374	7,496
42									6,888	7,012	7,136	7,260	7,384	7,508	7,632
43										7,138	7,264	7,390	7,516	7,642	7,768
44											7,392	7,520	7,648	7,776	7,904
45												7,650	7,780	7,910	8,040
46													7,912	8,044	8,176
47														8,178	8,312
48															8,448



INCHES → 21	22	23	24	25	26	27	28	29	30	31	32	33	34	
21	2,646	2,730	2,814	2,898	2,982	3,066	3,150	3,234	3,318	3,402	3,486	3,570	3,654	3,738
22		2,816	2,902	2,988	3,074	3,160	3,246	3,332	3,418	3,504	3,590	3,676	3,762	3,848
23			2,990	3,078	3,166	3,254	3,342	3,430	3,518	3,606	3,694	3,782	3,870	3,958
24				3,168	3,258	3,348	3,438	3,528	3,618	3,708	3,798	3,888	3,978	4,068
25					3,350	3,442	3,534	3,626	3,718	3,810	3,902	3,994	4,086	4,178
26						3,536	3,630	3,724	3,818	3,912	4,006	4,100	4,194	4,288
27							3,726	3,822	3,918	4,014	4,110	4,206	4,302	4,398
28								3,920	4,018	4,116	4,214	4,312	4,410	4,508
29									4,118	4,218	4,318	4,418	4,518	4,618
30										4,320	4,422	4,524	4,626	4,728
31											4,526	4,630	4,734	4,838
32												4,736	4,842	4,948
33													4,950	5,058
34														5,168

35	36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
3,822	3,906	3,990	4,074	4,158	4,242	4,326	4,410	4,494	4,578	4,662	4,746	4,830	4,914	21
3,934	4,020	4,106	4,192	4,278	4,364	4,450	4,536	4,622	4,708	4,794	4,880	4,966	5,052	22
4,046	4,134	4,222	4,310	4,398	4,486	4,574	4,662	4,750	4,838	4,926	5,014	5,102	5,190	23
4,158	4,248	4,338	4,428	4,518	4,608	4,698	4,788	4,878	4,968	5,058	5,148	5,238	5,328	24
4,270	4,362	4,454	4,546	4,638	4,730	4,822	4,914	5,006	5,098	5,190	5,282	5,374	5,466	25
4,382	4,476	4,570	4,664	4,758	4,852	4,946	5,040	5,134	5,228	5,322	5,416	5,510	5,604	26
4,494	4,590	4,686	4,782	4,878	4,974	5,070	5,166	5,262	5,358	5,454	5,550	5,646	5,742	27
4,606	4,704	4,802	4,900	4,998	5,096	5,194	5,292	5,390	5,488	5,586	5,684	5,782	5,880	28
4,718	4,818	4,918	5,018	5,118	5,218	5,318	5,418	5,518	5,618	5,718	5,818	5,918	6,018	29
4,830	4,932	5,034	5,136	5,238	5,340	5,442	5,544	5,646	5,748	5,850	5,952	6,054	6,156	30
4,942	5,046	5,150	5,254	5,358	5,462	5,566	5,670	5,774	5,878	5,982	6,086	6,190	6,294	31
5,054	5,160	5,266	5,372	5,478	5,584	5,690	5,796	5,902	6,008	6,114	6,220	6,326	6,432	32
5,166	5,274	5,382	5,490	5,598	5,706	5,814	5,922	6,030	6,138	6,246	6,354	6,462	6,570	33
5,278	5,388	5,498	5,608	5,718	5,828	5,938	6,048	6,158	6,268	6,378	6,488	6,598	6,708	34



INCHES →	35	36	37	38	39	40	41	42	43	44	45	46	47	48
35	5,390	5,502	5,614	5,726	5,838	5,950	6,062	6,174	6,286	6,398	6,510	6,622	6,734	6,846
36		5,616	5,730	5,844	5,958	6,072	6,186	6,300	6,414	6,528	6,642	6,756	6,870	6,984
37			5,846	5,962	6,078	6,194	6,310	6,426	6,542	6,658	6,774	6,890	7,006	7,122
38				6,080	6,198	6,316	6,434	6,552	6,670	6,788	6,906	7,024	7,142	7,260
39					6,318	6,438	6,558	6,678	6,798	6,918	7,038	7,158	7,278	7,398
40						6,560	6,682	6,804	6,926	7,048	7,170	7,292	7,414	7,536
41							6,806	6,930	7,054	7,178	7,302	7,426	7,550	7,674
42								7,056	7,182	7,308	7,434	7,560	7,686	7,812
43									7,310	7,438	7,566	7,694	7,822	7,950
44										7,568	7,698	7,828	7,958	8,088
45											7,830	7,962	8,094	8,226
46												8,096	8,230	8,364
47													8,366	8,502
48														8,640

INCHES →	22	23	24	25	26	27	28	29	30	31	32	33	34
22	2,904	2,992	3,080	3,168	3,256	3,344	3,432	3,520	3,608	3,696	3,784	3,872	3,960
23		3,082	3,172	3,262	3,352	3,442	3,532	3,622	3,712	3,802	3,892	3,982	4,072
24			3,264	3,356	3,448	3,540	3,632	3,724	3,816	3,908	4,000	4,092	4,184
25				3,450	3,544	3,638	3,732	3,826	3,920	4,014	4,108	4,202	4,296
26					3,640	3,736	3,832	3,928	4,024	4,120	4,216	4,312	4,408
27						3,834	3,932	4,030	4,128	4,226	4,324	4,422	4,520
28							4,032	4,132	4,232	4,332	4,432	4,532	4,632
29								4,234	4,336	4,438	4,540	4,642	4,744
30									4,440	4,544	4,648	4,752	4,856
31										4,650	4,756	4,862	4,968
32											4,864	4,972	5,080
33												5,082	5,192
34													5,304



35	36	37	38	39	40	41	42	43	44	45	46	47	48	← INCHES
4,048	4,136	4,224	4,312	4,400	4,488	4,576	4,664	4,752	4,840	4,928	5,016	5,104	5,192	22
4,162	4,252	4,342	4,432	4,522	4,612	4,702	4,792	4,882	4,972	5,062	5,152	5,242	5,332	23
4,276	4,368	4,460	4,552	4,644	4,736	4,828	4,920	5,012	5,104	5,196	5,288	5,380	5,472	24
4,390	4,484	4,578	4,672	4,766	4,860	4,954	5,048	5,142	5,236	5,330	5,424	5,518	5,612	25
4,504	4,600	4,696	4,792	4,888	4,984	5,080	5,176	5,272	5,368	5,464	5,560	5,656	5,752	26
4,618	4,716	4,814	4,912	5,010	5,108	5,206	5,304	5,402	5,500	5,598	5,696	5,794	5,892	27
4,732	4,832	4,932	5,032	5,132	5,232	5,332	5,432	5,532	5,632	5,732	5,832	5,932	6,032	28
4,846	4,948	5,050	5,152	5,254	5,356	5,458	5,560	5,662	5,764	5,866	5,968	6,070	6,172	29
4,960	5,064	5,168	5,272	5,376	5,480	5,584	5,688	5,792	5,896	6,000	6,104	6,208	6,312	30
5,074	5,180	5,286	5,392	5,498	5,604	5,710	5,816	5,922	6,028	6,134	6,240	6,346	6,452	31
5,188	5,296	5,404	5,512	5,620	5,728	5,836	5,944	6,052	6,160	6,268	6,376	6,484	6,592	32
5,302	5,412	5,522	5,632	5,742	5,852	5,962	6,072	6,182	6,292	6,402	6,512	6,622	6,732	33
5,416	5,528	5,640	5,752	5,864	5,976	6,088	6,200	6,312	6,424	6,536	6,648	6,760	6,872	34

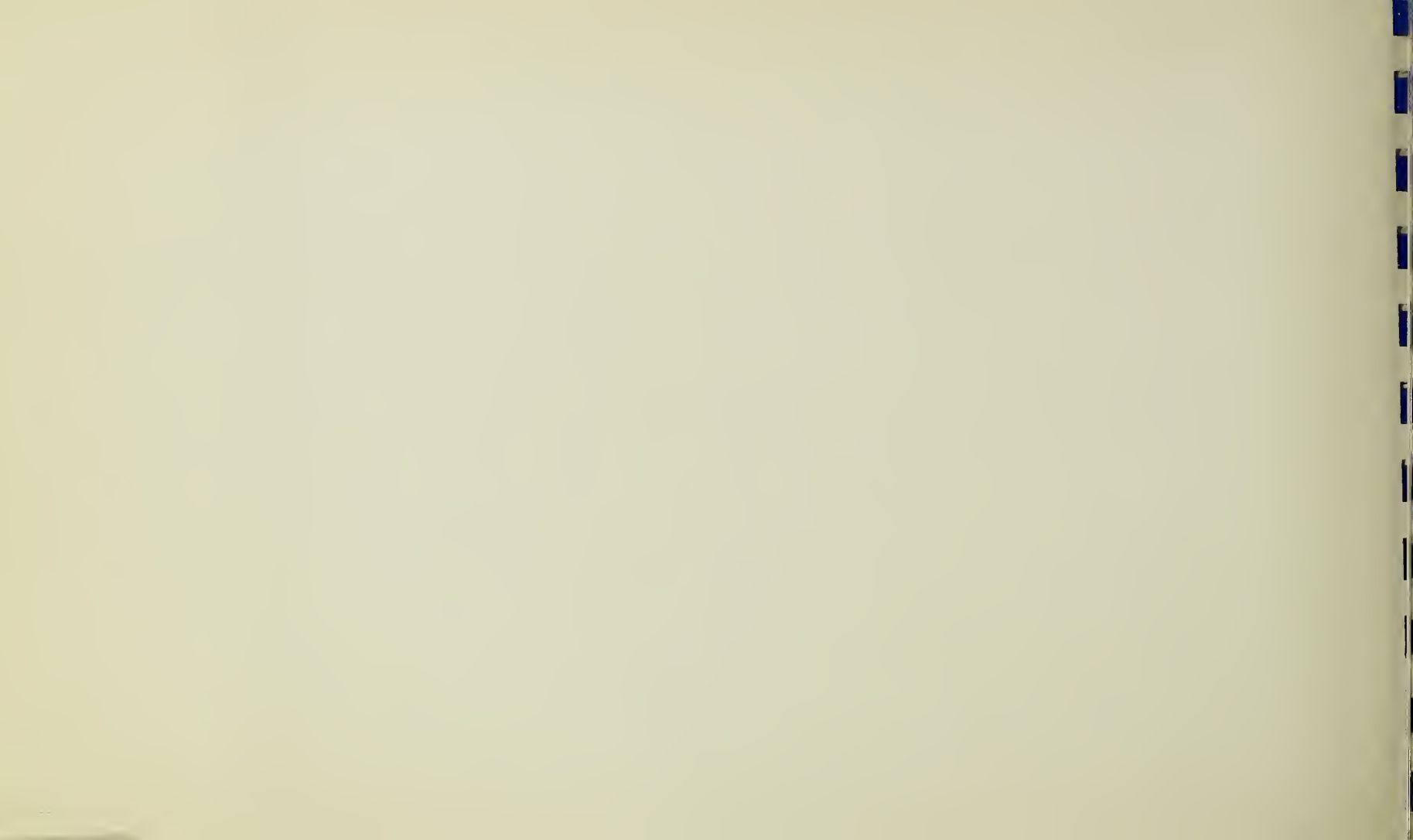


INCHES →	35	36	37	38	39	40	41	42	43	44	45	46	47	48
↓														
35	5,530	5,644	5,758	5,872	5,986	6,100	6,214	6,328	6,442	6,556	6,670	6,784	6,898	7,012
36		5,760	5,876	5,992	6,108	6,224	6,340	6,456	6,572	6,688	6,804	6,920	7,036	7,152
37			5,994	6,112	6,230	6,348	6,466	6,584	6,702	6,820	6,938	7,056	7,174	7,292
38				6,232	6,352	6,472	6,592	6,712	6,832	6,952	7,072	7,192	7,312	7,432
39					6,474	6,596	6,718	6,840	6,962	7,084	7,206	7,328	7,450	7,572
40						6,720	6,844	6,968	7,092	7,216	7,340	7,464	7,588	7,712
41							6,970	7,096	7,222	7,348	7,474	7,600	7,726	7,852
42								7,224	7,352	7,480	7,608	7,736	7,864	7,992
43									7,482	7,612	7,742	7,872	8,002	8,132
44										7,744	7,876	8,008	8,140	8,272
45											8,010	8,144	8,276	8,412
46												8,280	8,416	8,552
47													8,554	8,692
48														8,832

INCHES →	23	24	25	26	27	28	29	30	31	32	33	34	35
23	3,174	3,266	3,358	3,450	3,542	3,634	3,726	3,818	3,910	4,002	4,094	4,186	4,278
24		3,360	3,454	3,548	3,642	3,736	3,830	3,924	4,018	4,112	4,206	4,300	4,394
25			3,550	3,646	3,742	3,838	3,934	4,030	4,126	4,222	4,318	4,414	4,510
26				3,744	3,842	3,940	4,038	4,136	4,234	4,332	4,430	4,528	4,626
27					3,942	4,042	4,142	4,242	4,342	4,442	4,542	4,642	4,742
28						4,144	4,246	4,348	4,450	4,552	4,654	4,756	4,858
29							4,350	4,454	4,558	4,662	4,766	4,870	4,974
30								4,560	4,666	4,772	4,878	4,984	5,090
31									4,774	4,882	4,990	5,098	5,206
32										4,992	5,102	5,212	5,322
33											5,214	5,326	5,438
34												5,440	5,554
35													5,670

36	37	38	39	40	41	42	43	44	45	46	47	48	INCHES
4,370	4,462	4,554	4,646	4,738	4,830	4,922	5,014	5,106	5,198	5,290	5,382	5,474	23
4,488	4,582	4,676	4,770	4,864	4,958	5,052	5,146	5,240	5,334	5,428	5,522	5,616	24
4,606	4,702	4,798	4,894	4,990	5,086	5,182	5,278	5,374	5,470	5,566	5,662	5,758	25
4,724	4,822	4,920	5,018	5,116	5,214	5,312	5,410	5,508	5,606	5,704	5,802	5,900	26
4,842	4,942	5,042	5,142	5,242	5,342	5,442	5,542	5,642	5,742	5,842	5,942	6,042	27
4,960	5,062	5,164	5,266	5,368	5,470	5,572	5,674	5,776	5,878	5,980	6,082	6,184	28
5,078	5,182	5,286	5,390	5,494	5,598	5,702	5,806	5,910	6,014	6,118	6,222	6,326	29
5,196	5,302	5,408	5,514	5,620	5,726	5,832	5,938	6,044	6,150	6,256	6,362	6,468	30
5,314	5,422	5,530	5,638	5,746	5,854	5,962	6,070	6,178	6,286	6,394	6,502	6,610	31
5,432	5,542	5,652	5,762	5,872	5,982	6,092	6,202	6,312	6,422	6,532	6,642	6,752	32
5,550	5,662	5,774	5,886	5,998	6,110	6,222	6,334	6,446	6,558	6,670	6,782	6,894	33
5,668	5,782	5,896	6,010	6,124	6,238	6,352	6,466	6,580	6,694	6,808	6,922	7,036	34
5,786	5,902	6,018	6,134	6,250	6,366	6,482	6,598	6,714	6,830	6,946	7,062	7,178	35





INCHES →	36	37	38	39	40	41	42	43	44	45	46	47	48
↓													
36	5,904	6,022	6,140	6,258	6,376	6,494	6,612	6,730	6,848	6,966	7,084	7,202	7,320
37		6,142	6,262	6,382	6,502	6,622	6,742	6,862	6,982	7,102	7,222	7,342	7,462
38			6,384	6,506	6,628	6,750	6,872	6,994	7,116	7,238	7,360	7,482	7,604
39				6,630	6,754	6,878	7,002	7,126	7,250	7,374	7,498	7,622	7,746
40					6,880	7,006	7,132	7,258	7,384	7,510	7,636	7,762	7,888
41						7,134	7,262	7,390	7,518	7,646	7,774	7,902	8,030
42							7,392	7,522	7,652	7,782	7,912	8,042	8,172
43								7,654	7,786	7,918	8,050	8,182	8,314
44									7,920	8,054	8,188	8,322	8,456
45										8,190	8,326	8,462	8,598
46											8,464	8,602	8,740
47												8,742	8,882
48													9,024

INCHES →	24	25	26	27	28	29	30	31	32	33	34	35
↓												
24	3,456	3,552	3,648	3,744	3,840	3,936	4,032	4,128	4,224	4,320	4,416	4,512
25		3,650	3,748	3,846	3,944	4,042	4,140	4,238	4,336	4,434	4,532	4,630
26			3,848	3,948	4,048	4,148	4,248	4,348	4,448	4,548	4,648	4,748
27				4,050	4,152	4,254	4,356	4,458	4,560	4,662	4,764	4,866
28					4,256	4,360	4,464	4,568	4,672	4,776	4,880	4,984
29						4,466	4,572	4,678	4,784	4,890	4,996	5,102
30							4,680	4,788	4,896	5,004	5,112	5,220
31								4,898	5,008	5,118	5,228	5,338
32									5,120	5,232	5,344	5,456
33										5,346	5,460	5,574
34											5,576	5,692
35												5,810

36	37	38	39	40	41	42	43	44	45	46	47	48 ← INCHES	
4,608	4,704	4,800	4,896	4,992	5,088	5,184	5,280	5,376	5,472	5,568	5,664	5,760	24
4,728	4,826	4,924	5,022	5,120	5,218	5,316	5,414	5,512	5,610	5,708	5,806	5,904	25
4,848	4,948	5,048	5,148	5,248	5,348	5,448	5,548	5,648	5,748	5,848	5,948	6,048	26
4,968	5,070	5,172	5,274	5,376	5,478	5,580	5,682	5,784	5,886	5,988	6,090	6,192	27
5,088	5,192	5,296	5,400	5,504	5,608	5,712	5,816	5,920	6,024	6,128	6,232	6,336	28
5,208	5,314	5,420	5,526	5,632	5,738	5,844	5,950	6,056	6,162	6,268	6,374	6,480	29
5,328	5,436	5,544	5,652	5,760	5,868	5,976	6,084	6,192	6,300	6,408	6,516	6,624	30
5,448	5,558	5,668	5,778	5,888	5,998	6,108	6,218	6,328	6,438	6,548	6,658	6,768	31
5,568	5,680	5,792	5,904	6,016	6,128	6,240	6,352	6,464	6,576	6,688	6,800	6,912	32
5,688	5,802	5,916	6,030	6,144	6,258	6,372	6,486	6,600	6,714	6,828	6,942	7,056	33
5,808	5,924	6,040	6,156	6,272	6,388	6,504	6,620	6,736	6,852	6,968	7,084	7,200	34
5,928	6,046	6,164	6,282	6,400	6,518	6,636	6,754	6,872	6,990	7,108	7,226	7,344	35

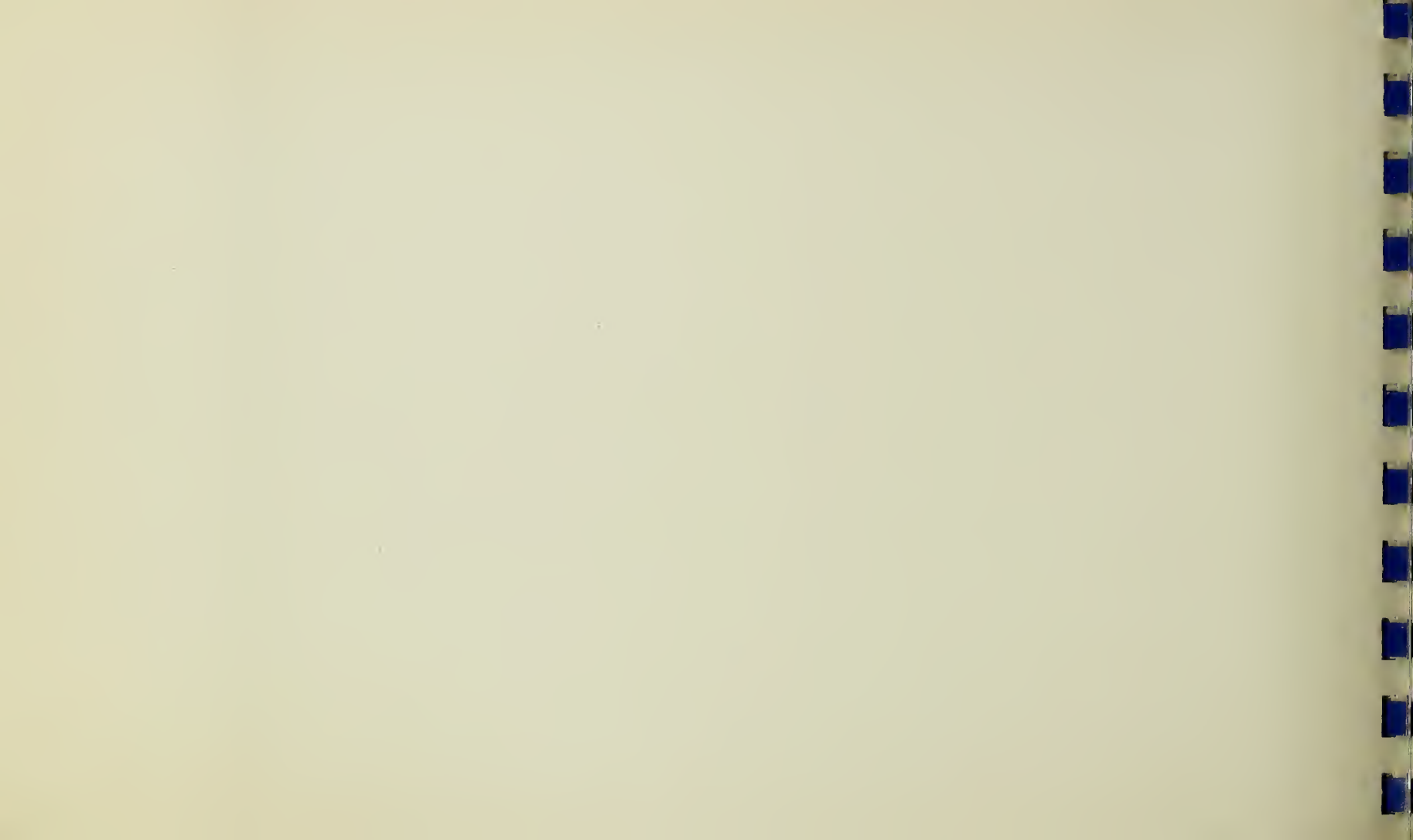




INCHES →	36	37	38	39	40	41	42	43	44	45	46	47	48
36	6,048	6,168	6,288	6,408	6,528	6,648	6,768	6,888	7,008	7,128	7,248	7,368	7,488
37		6,290	6,412	6,534	6,656	6,778	6,900	7,022	7,144	7,266	7,388	7,510	7,632
38			6,536	6,660	6,784	6,908	7,032	7,156	7,280	7,404	7,528	7,652	7,776
39				6,786	6,912	7,038	7,164	7,290	7,416	7,542	7,668	7,794	7,920
40					7,040	7,168	7,296	7,424	7,552	7,680	7,808	7,936	8,064
41						7,298	7,428	7,558	7,688	7,818	7,948	8,078	8,208
42							7,560	7,692	7,824	7,956	8,088	8,220	8,352
43								7,826	7,960	8,094	8,228	8,362	8,496
44									8,096	8,232	8,368	8,504	8,640
45										8,370	8,508	8,646	8,784
46											8,648	8,788	8,928
47												8,930	9,072
48													9,216

INCHES →	25	26	27	28	29	30	31	32	33	34	35	36
↓												
25	3,750	3,850	3,950	4,050	4,150	4,250	4,350	4,450	4,550	4,650	4,750	4,850
26		3,952	4,054	4,156	4,258	4,360	4,462	4,564	4,666	4,768	4,870	4,972
27			4,158	4,262	4,366	4,470	4,574	4,678	4,782	4,886	4,990	5,094
28				4,368	4,474	4,580	4,686	4,792	4,898	5,004	5,110	5,216
29					4,582	4,690	4,798	4,906	5,014	5,122	5,230	5,338
30						4,800	4,910	5,020	5,130	5,240	5,350	5,460
31							5,022	5,134	5,246	5,358	5,470	5,582
32								5,248	5,362	5,476	5,590	5,704
33									5,478	5,594	5,710	5,826
34										5,712	5,830	5,948
35											5,950	6,070
36												6,192

37	38	39	40	41	42	43	44	45	46	47	48	INCHES
4,950	5,050	5,150	5,250	5,350	5,450	5,550	5,650	5,750	5,850	5,950	6,050	25
5,074	5,176	5,278	5,380	5,482	5,584	5,686	5,788	5,890	5,992	6,094	6,196	26
5,198	5,302	5,406	5,510	5,614	5,718	5,822	5,926	6,030	6,134	6,238	6,342	27
5,322	5,428	5,534	5,640	5,746	5,852	5,958	6,064	6,170	6,276	6,382	6,488	28
5,446	5,554	5,662	5,770	5,878	5,986	6,094	6,202	6,310	6,418	6,526	6,634	29
5,570	5,680	5,790	5,900	6,010	6,120	6,230	6,340	6,450	6,560	6,670	6,780	30
5,694	5,806	5,918	6,030	6,142	6,254	6,366	6,478	6,590	6,702	6,814	6,926	31
5,818	5,932	6,046	6,160	6,274	6,388	6,502	6,616	6,730	6,844	6,958	7,072	32
5,942	6,058	6,174	6,290	6,406	6,522	6,638	6,754	6,870	6,986	7,102	7,218	33
6,066	6,184	6,302	6,420	6,538	6,656	6,774	6,892	7,010	7,128	7,246	7,364	34
6,190	6,310	6,430	6,550	6,670	6,790	6,910	7,030	7,150	7,270	7,390	7,510	35
6,314	6,436	6,558	6,680	6,802	6,924	7,046	7,168	7,290	7,412	7,534	7,656	36



INCHES →	37	38	39	40	41	42	43	44	45	46	47	48
37	6,438	6,562	6,686	6,810	6,934	7,058	7,182	7,306	7,430	7,554	7,678	7,802
38		6,688	6,814	6,940	7,066	7,192	7,318	7,444	7,570	7,696	7,822	7,948
39			6,942	7,070	7,198	7,326	7,454	7,582	7,710	7,838	7,966	8,094
40				7,200	7,330	7,460	7,590	7,720	7,850	7,980	8,110	8,240
41					7,462	7,594	7,726	7,858	7,990	8,122	8,254	8,386
42						7,728	7,862	7,996	8,130	8,264	8,398	8,532
43							7,998	8,134	8,270	8,406	8,542	8,678
44								8,272	8,410	8,548	8,686	8,824
45									8,550	8,690	8,830	8,970
46										8,832	8,974	9,116
47											9,118	9,262
48												9,408



INCHES →	26	27	28	29	30	31	32	33	34	35	36
26	4,056	4,160	4,264	4,368	4,472	4,576	4,680	4,784	4,888	4,992	5,096
27		4,266	4,372	4,478	4,584	4,690	4,796	4,902	5,008	5,114	5,220
28			4,480	4,588	4,696	4,804	4,912	5,020	5,128	5,236	5,344
29				4,698	4,808	4,918	5,028	5,138	5,248	5,358	5,468
30					4,920	5,032	5,144	5,256	5,368	5,480	5,592
31						5,146	5,260	5,374	5,488	5,602	5,716
32							5,376	5,492	5,608	5,724	5,840
33								5,610	5,728	5,846	5,964
34									5,848	5,968	6,088
35										6,090	6,212
36											6,336

37	38	39	40	41	42	43	44	45	46	47	48 ← INCHES	
5,200	5,304	5,408	5,512	5,616	5,720	5,824	5,928	6,032	6,136	6,240	6,344	26
5,326	5,432	5,538	5,644	5,750	5,856	5,962	6,068	6,174	6,280	6,386	6,492	27
5,452	5,560	5,668	5,776	5,884	5,992	6,100	6,208	6,316	6,424	6,532	6,640	28
5,578	5,688	5,798	5,908	6,018	6,128	6,238	6,348	6,458	6,568	6,678	6,788	29
5,704	5,816	5,928	6,040	6,152	6,264	6,376	6,488	6,600	6,712	6,824	6,936	30
5,830	5,944	6,058	6,172	6,286	6,400	6,514	6,628	6,742	6,856	6,970	7,084	31
5,956	6,072	6,188	6,304	6,420	6,536	6,652	6,768	6,884	7,000	7,116	7,232	32
6,082	6,200	6,318	6,436	6,554	6,672	6,790	6,908	7,026	7,144	7,262	7,380	33
6,208	6,328	6,448	6,568	6,688	6,808	6,928	7,048	7,168	7,288	7,408	7,528	34
6,334	6,456	6,578	6,700	6,822	6,944	7,066	7,188	7,310	7,432	7,554	7,676	35
6,460	6,584	6,708	6,832	6,956	7,080	7,204	7,328	7,452	7,576	7,700	7,824	36

26" 27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48"



INCHES →	37	38	39	40	41	42	43	44	45	46	47	48
37	6,586	6,712	6,838	6,964	7,090	7,216	7,342	7,468	7,594	7,720	7,846	7,972
38		6,840	6,968	7,096	7,224	7,352	7,480	7,608	7,736	7,864	7,992	8,120
39			7,098	7,228	7,358	7,488	7,618	7,748	7,878	8,008	8,138	8,268
40				7,360	7,492	7,624	7,756	7,888	8,020	8,152	8,284	8,416
41					7,626	7,760	7,894	8,028	8,162	8,296	8,430	8,564
42						7,896	8,032	8,168	8,304	8,440	8,576	8,712
43							8,170	8,308	8,446	8,584	8,722	8,860
44								8,448	8,588	8,728	8,868	9,008
45									8,730	8,872	9,014	9,156
46										9,016	9,160	9,304
47											9,306	9,452
48												9,600

27" 28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48"

INCHES →	27	28	29	30	31	32	33	34	35	36	37
↓											
27	4,374	4,482	4,590	4,698	4,806	4,914	5,022	5,130	5,238	5,346	5,454
28		4,592	4,702	4,812	4,922	5,032	5,142	5,252	5,362	5,472	5,582
29			4,814	4,926	5,038	5,150	5,262	5,374	5,486	5,598	5,710
30				5,040	5,154	5,268	5,382	5,496	5,610	5,724	5,838
31					5,270	5,386	5,502	5,618	5,734	5,850	5,966
32						5,504	5,622	5,740	5,858	5,976	6,094
33							5,742	5,862	5,982	6,102	6,222
34								5,984	6,106	6,228	6,350
35									6,230	6,354	6,478
36										6,480	6,606
37											6,734



38	39	40	41	42	43	44	45	46	47	48	INCHES
5,562	5,670	5,778	5,886	5,994	6,102	6,210	6,318	6,426	6,534	6,642	27
5,692	5,802	5,912	6,022	6,132	6,242	6,352	6,462	6,572	6,682	6,792	28
5,822	5,934	6,046	6,158	6,270	6,382	6,494	6,606	6,718	6,830	6,942	29
5,952	6,066	6,180	6,294	6,408	6,522	6,636	6,750	6,864	6,978	7,092	30
6,082	6,198	6,314	6,430	6,546	6,662	6,778	6,894	7,010	7,126	7,242	31
6,212	6,330	6,448	6,566	6,684	6,802	6,920	7,038	7,156	7,274	7,392	32
6,342	6,462	6,582	6,702	6,822	6,942	7,062	7,182	7,302	7,422	7,542	33
6,472	6,594	6,716	6,838	6,960	7,082	7,204	7,326	7,448	7,570	7,692	34
6,602	6,726	6,850	6,974	7,098	7,222	7,346	7,470	7,594	7,718	7,842	35
6,732	6,858	6,984	7,110	7,236	7,362	7,488	7,614	7,740	7,866	7,992	36
6,862	6,990	7,118	7,246	7,374	7,502	7,630	7,758	7,886	8,014	8,142	37

27" 28" 29" 30" 31" 32" 33" 34" 35" 36 37 38' 39 40 4 4 4 4 4



INCHES →	38	39	40	41	42	43	44	45	46	47	48
38	6,992	7,122	7,252	7,382	7,512	7,642	7,772	7,902	8,032	8,162	8,292
39		7,254	7,386	7,518	7,650	7,782	7,914	8,046	8,178	8,310	8,442
40			7,520	7,654	7,788	7,922	8,056	8,190	8,324	8,458	8,592
41				7,790	7,926	8,062	8,198	8,334	8,470	8,606	8,742
42					8,064	8,202	8,340	8,478	8,616	8,754	8,892
43						8,342	8,482	8,622	8,762	8,902	9,042
44							8,624	8,766	8,908	9,050	9,192
45								8,910	9,054	9,198	9,342
46									9,200	9,346	9,492
47										9,494	9,642
48											9,792

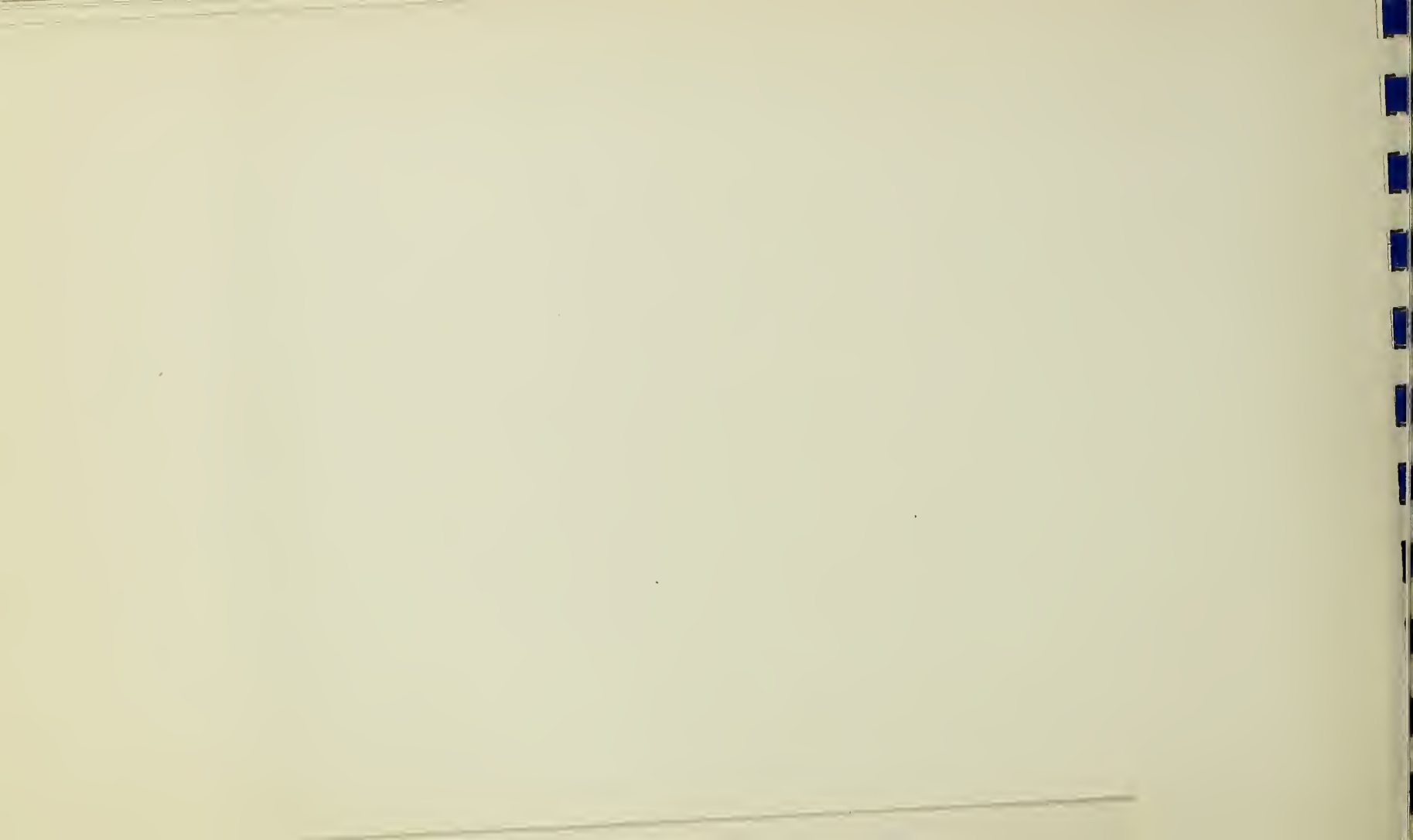
28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48"

INCHES →	28	29	30	31	32	33	34	35	36	37
28	4,704	4,816	4,928	5,040	5,152	5,264	5,376	5,488	5,600	5,712
29		4,930	5,044	5,158	5,272	5,386	5,500	5,614	5,728	5,842
30			5,160	5,276	5,392	5,508	5,624	5,740	5,856	5,972
31				5,394	5,512	5,630	5,748	5,866	5,984	6,102
32					5,632	5,752	5,872	5,992	6,112	6,232
33						5,874	5,996	6,118	6,240	6,362
34							6,120	6,244	6,368	6,492
35								6,370	6,496	6,622
36									6,624	6,752
37										6,882

38	39	40	41	42	43	44	45	46	47	48	INCHES
5,824	5,936	6,048	6,160	6,272	6,384	6,496	6,608	6,720	6,832	6,944	28
5,956	6,070	6,184	6,298	6,412	6,526	6,640	6,754	6,868	6,982	7,096	29
6,088	6,204	6,320	6,436	6,552	6,668	6,784	6,900	7,016	7,132	7,248	30
6,220	6,338	6,456	6,574	6,692	6,810	6,928	7,046	7,164	7,282	7,400	31
6,352	6,472	6,592	6,712	6,832	6,952	7,072	7,192	7,312	7,432	7,552	32
6,484	6,606	6,728	6,850	6,972	7,094	7,216	7,338	7,460	7,582	7,704	33
6,616	6,740	6,864	6,988	7,112	7,236	7,360	7,484	7,608	7,732	7,856	34
6,748	6,874	7,000	7,126	7,252	7,378	7,504	7,630	7,756	7,882	8,008	35
6,880	7,008	7,136	7,264	7,392	7,520	7,648	7,776	7,904	8,032	8,160	36
7,012	7,142	7,272	7,402	7,532	7,662	7,792	7,922	8,052	8,182	8,312	37

28" 29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39 40 41 42 43 44 45 46 47 48





INCHES →	38	39	40	41	42	43	44	45	46	47	48
38	7,144	7,276	7,408	7,540	7,672	7,804	7,936	8,068	8,200	8,332	8,464
39		7,410	7,544	7,678	7,812	7,946	8,080	8,214	8,348	8,482	8,616
40			7,680	7,816	7,952	8,088	8,224	8,360	8,496	8,632	8,768
41				7,954	8,092	8,230	8,368	8,506	8,644	8,782	8,920
42					8,232	8,372	8,512	8,652	8,792	8,932	9,072
43						8,514	8,656	8,798	8,940	9,082	9,224
44							8,800	8,944	9,088	9,232	9,376
45								9,090	9,236	9,382	9,528
46									9,384	9,532	9,680
47										9,682	9,832
48											9,984

29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39 40 41 42 43 44 45 46 47 48



INCHES →	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
29	5,046	5,162	5,278	5,394	5,510	5,626	5,742	5,858	5,974	6,090	6,206	6,322	6,438	6,554	6,670	6,786	6,902	7,018	7,134	7,250
30		5,280	5,398	5,516	5,634	5,752	5,870	5,988	6,106	6,224	6,342	6,460	6,578	6,696	6,814	6,932	7,050	7,168	7,286	7,404
31			5,518	5,638	5,758	5,878	5,998	6,118	6,238	6,358	6,478	6,598	6,718	6,838	6,958	7,078	7,198	7,318	7,438	7,558
32				5,760	5,882	6,004	6,126	6,248	6,370	6,492	6,614	6,736	6,858	6,980	7,102	7,224	7,346	7,468	7,590	7,712
33					6,006	6,130	6,254	6,378	6,502	6,626	6,750	6,874	6,998	7,122	7,246	7,370	7,494	7,618	7,742	7,866
34						6,256	6,382	6,508	6,634	6,760	6,886	7,012	7,138	7,264	7,390	7,516	7,642	7,768	7,894	8,020
35							6,510	6,638	6,766	6,894	7,022	7,150	7,278	7,406	7,534	7,662	7,790	7,918	8,046	8,174
36								6,768	6,898	7,028	7,158	7,288	7,418	7,548	7,678	7,808	7,938	8,068	8,198	8,328
37									7,030	7,162	7,294	7,426	7,558	7,690	7,822	7,954	8,086	8,218	8,350	8,482
38										7,296	7,430	7,564	7,698	7,832	7,966	8,100	8,234	8,368	8,502	8,636
39											7,566	7,702	7,838	7,974	8,110	8,246	8,382	8,518	8,654	8,790
40												7,840	7,978	8,116	8,254	8,392	8,530	8,668	8,806	8,944
41													8,118	8,258	8,398	8,538	8,678	8,818	8,958	9,098
42														8,400	8,542	8,684	8,826	8,968	9,110	9,252
43															8,686	8,830	8,974	9,118	9,262	9,406
44																8,976	9,122	9,268	9,414	9,560
45																	9,270	9,418	9,566	9,714
46																		9,568	9,718	9,868
47																			9,870	10,022
48																				10,176

29" 30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48"





INCHES →	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
30	5,400	5,520	5,640	5,760	5,880	6,000	6,120	6,240	6,360	6,480	6,600	6,720	6,840	6,960	7,080	7,200	7,320	7,440	7,560
31		5,642	5,764	5,886	6,008	6,130	6,252	6,374	6,496	6,618	6,740	6,862	6,984	7,106	7,228	7,350	7,472	7,594	7,716
32			5,888	6,012	6,136	6,260	6,384	6,508	6,632	6,756	6,880	7,004	7,128	7,252	7,376	7,500	7,624	7,748	7,872
33				6,138	6,264	6,390	6,516	6,642	6,768	6,894	7,020	7,146	7,272	7,398	7,524	7,650	7,776	7,902	8,028
34					6,392	6,520	6,648	6,776	6,904	7,032	7,160	7,288	7,416	7,544	7,672	7,800	7,928	8,056	8,184
35						6,650	6,780	6,910	7,040	7,170	7,300	7,430	7,560	7,690	7,820	7,950	8,080	8,210	8,340
36							6,912	7,044	7,176	7,308	7,440	7,572	7,704	7,836	7,968	8,100	8,232	8,364	8,496
37								7,178	7,312	7,446	7,580	7,714	7,848	7,982	8,116	8,250	8,384	8,518	8,652
38									7,448	7,584	7,720	7,856	7,992	8,128	8,264	8,400	8,536	8,672	8,808
39										7,722	7,860	7,998	8,136	8,274	8,412	8,550	8,688	8,826	8,964
40											8,000	8,140	8,280	8,420	8,560	8,700	8,840	8,980	9,120
41												8,282	8,424	8,566	8,708	8,850	8,992	9,134	9,276
42													8,568	8,712	8,856	9,000	9,144	9,288	9,432
43														8,858	9,004	9,150	9,296	9,442	9,588
44															9,152	9,300	9,448	9,596	9,744
45																9,450	9,600	9,750	9,900
46																	9,752	9,904	10,056
47																		10,058	10,212
48																			10,368

30" 31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48"



INCHES →	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
31	5,766	5,890	6,014	6,138	6,262	6,386	6,510	6,634	6,758	6,882	7,006	7,130	7,254	7,378	7,502	7,626	7,750	7,874
32		6,016	6,142	6,268	6,394	6,520	6,646	6,772	6,898	7,024	7,150	7,276	7,402	7,528	7,654	7,780	7,906	8,032
33			6,270	6,398	6,526	6,654	6,782	6,910	7,038	7,166	7,294	7,422	7,550	7,678	7,806	7,934	8,062	8,190
34				6,528	6,658	6,788	6,918	7,048	7,178	7,308	7,438	7,568	7,698	7,828	7,958	8,088	8,218	8,348
35					6,790	6,922	7,054	7,186	7,318	7,450	7,582	7,714	7,846	7,978	8,110	8,242	8,374	8,506
36						7,056	7,190	7,324	7,458	7,592	7,726	7,860	7,994	8,128	8,262	8,396	8,530	8,664
37							7,326	7,462	7,598	7,734	7,870	8,006	8,142	8,278	8,414	8,550	8,686	8,822
38								7,600	7,738	7,876	8,014	8,152	8,290	8,428	8,566	8,704	8,842	8,980
39									7,878	8,018	8,158	8,298	8,438	8,578	8,718	8,858	8,998	9,138
40										8,160	8,302	8,444	8,586	8,728	8,870	9,012	9,154	9,296
41											8,446	8,590	8,734	8,878	9,022	9,166	9,310	9,454
42												8,736	8,882	9,028	9,174	9,320	9,466	9,612
43													9,030	9,178	9,326	9,474	9,622	9,770
44														9,328	9,478	9,628	9,778	9,928
45															9,630	9,782	9,934	10,086
46																9,936	10,090	10,244
47																	10,246	10,402
48																		10,560

31" 32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48"



INCHES	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
32	6,144	6,272	6,400	6,528	6,656	6,784	6,912	7,040	7,168	7,296	7,424	7,552	7,680	7,808	7,936	8,064	8,192
33		6,402	6,532	6,662	6,792	6,922	7,052	7,182	7,312	7,442	7,572	7,702	7,832	7,962	8,092	8,222	8,352
34			6,664	6,796	6,928	7,060	7,192	7,324	7,456	7,588	7,720	7,852	7,984	8,116	8,248	8,380	8,512
35				6,930	7,064	7,198	7,332	7,466	7,600	7,734	7,868	8,002	8,136	8,270	8,404	8,538	8,672
36					7,200	7,336	7,472	7,608	7,744	7,880	8,016	8,152	8,288	8,424	8,560	8,696	8,832
37						7,474	7,612	7,750	7,888	8,026	8,164	8,302	8,440	8,578	8,716	8,854	8,992
38							7,752	7,892	8,032	8,172	8,312	8,452	8,592	8,732	8,872	9,012	9,152
39								8,034	8,176	8,318	8,460	8,602	8,744	8,886	9,028	9,170	9,312
40									8,320	8,464	8,608	8,752	8,896	9,040	9,184	9,328	9,472
41										8,610	8,756	8,902	9,048	9,194	9,340	9,486	9,632
42											8,904	9,052	9,200	9,348	9,496	9,644	9,792
43												9,202	9,352	9,502	9,652	9,802	9,952
44													9,504	9,656	9,808	9,960	10,112
45														9,810	9,964	10,118	10,272
46															10,120	10,276	10,432
47																10,434	10,592
48																	10,752

32" 33" 34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48"





INCHES →	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
33	6,534	6,666	6,798	6,930	7,062	7,194	7,326	7,458	7,590	7,722	7,854	7,986	8,118	8,250	8,382	8,514
34		6,800	6,934	7,068	7,202	7,336	7,470	7,604	7,738	7,872	8,006	8,140	8,274	8,408	8,542	8,676
35			7,070	7,206	7,342	7,478	7,614	7,750	7,886	8,022	8,158	8,294	8,430	8,566	8,702	8,838
36				7,344	7,482	7,620	7,758	7,896	8,034	8,172	8,310	8,448	8,586	8,724	8,862	9,000
37					7,622	7,762	7,902	8,042	8,182	8,322	8,462	8,602	8,742	8,882	9,022	9,162
38						7,904	8,046	8,188	8,330	8,472	8,614	8,756	8,898	9,040	9,182	9,324
39							8,190	8,334	8,478	8,622	8,766	8,910	9,054	9,198	9,342	9,486
40								8,480	8,626	8,772	8,918	9,064	9,210	9,356	9,502	9,648
41									8,774	8,922	9,070	9,218	9,366	9,514	9,662	9,810
42										9,072	9,222	9,372	9,522	9,672	9,822	9,972
43											9,374	9,526	9,678	9,830	9,982	10,134
44												9,680	9,834	9,988	10,142	10,296
45													9,990	10,146	10,302	10,458
46														10,304	10,462	10,620
47															10,622	10,782
48																10,944

33"

34"

35"

36"

37"

38"

39"

40'

41"

42'

43

44

45

46

47

4



INCHES →	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
34	6,936	7,072	7,208	7,344	7,480	7,616	7,752	7,888	8,024	8,160	8,296	8,432	8,568	8,704	8,840
35		7,210	7,348	7,486	7,624	7,762	7,900	8,038	8,176	8,314	8,452	8,590	8,728	8,866	9,004
36			7,488	7,628	7,768	7,908	8,048	8,188	8,328	8,468	8,608	8,748	8,888	9,028	9,168
37				7,770	7,912	8,054	8,196	8,338	8,480	8,622	8,764	8,906	9,048	9,190	9,332
38					8,056	8,200	8,344	8,488	8,632	8,776	8,920	9,064	9,208	9,352	9,496
39						8,346	8,492	8,638	8,784	8,930	9,076	9,222	9,368	9,514	9,660
40							8,640	8,788	8,936	9,084	9,232	9,380	9,528	9,676	9,824
41								8,938	9,088	9,238	9,388	9,538	9,688	9,838	9,988
42									9,240	9,392	9,544	9,696	9,848	10,000	10,152
43										9,546	9,700	9,854	10,008	10,162	10,316
44											9,856	10,012	10,168	10,324	10,480
45												10,170	10,328	10,486	10,644
46													10,488	10,648	10,808
47														10,810	10,972
48															11,136

34" 35" 36" 37" 38" 39" 40" 41" 42" 43" 44" 45" 46" 47" 48"

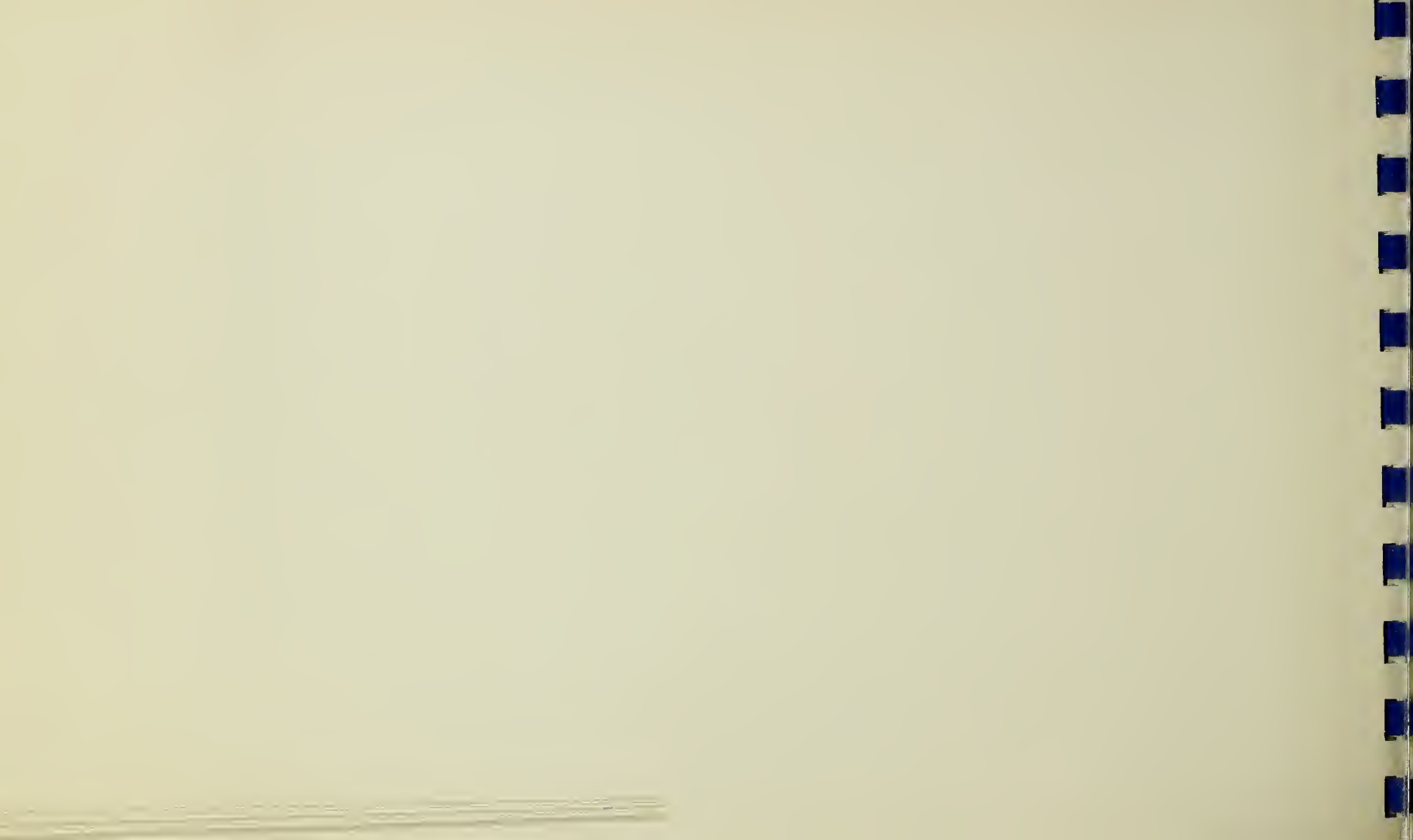




INCHES →	35	36	37	38	39	40	41	42	43	44	45	46	47	48
35	7,350	7,490	7,630	7,770	7,910	8,050	8,190	8,330	8,470	8,610	8,750	8,890	9,030	9,170
36		7,632	7,774	7,916	8,058	8,200	8,342	8,484	8,626	8,768	8,910	9,052	9,194	9,336
37			7,918	8,062	8,206	8,350	8,494	8,638	8,782	8,926	9,070	9,214	9,358	9,502
38				8,208	8,354	8,500	8,646	8,792	8,938	9,084	9,230	9,376	9,522	9,668
39					8,502	8,650	8,798	8,946	9,094	9,242	9,390	9,538	9,686	9,834
40						8,800	8,950	9,100	9,250	9,400	9,550	9,700	9,850	10,000
41							9,102	9,254	9,406	9,558	9,710	9,862	10,014	10,166
42								9,408	9,562	9,716	9,870	10,024	10,178	10,332
43									9,718	9,874	10,030	10,186	10,342	10,498
44										10,032	10,190	10,348	10,506	10,664
45											10,350	10,510	10,670	10,830
46												10,672	10,834	10,996
47													10,998	11,162
48														11,328



INCHES →	36	37	38	39	40	41	42	43	44	45	46	47	48
36	7,776	7,920	8,064	8,208	8,352	8,496	8,640	8,784	8,928	9,072	9,216	9,360	9,504
37		8,066	8,212	8,358	8,504	8,650	8,796	8,942	9,088	9,234	9,380	9,526	9,672
38			8,360	8,508	8,656	8,804	8,952	9,100	9,248	9,396	9,544	9,692	9,840
39				8,658	8,808	8,958	9,108	9,258	9,408	9,558	9,708	9,858	10,008
40					8,960	9,112	9,264	9,416	9,568	9,720	9,872	10,024	10,176
41						9,266	9,420	9,574	9,728	9,882	10,036	10,190	10,344
42							9,576	9,732	9,888	10,044	10,200	10,356	10,512
43								9,890	10,048	10,206	10,364	10,522	10,680
44									10,208	10,368	10,528	10,688	10,848
45										10,530	10,692	10,854	11,016
46											10,856	11,020	11,184
47												11,186	11,352
48													11,520



INCHES →	37	38	39	40	41	42	43	44	45	46	47	48
37	8,214	8,362	8,510	8,658	8,806	8,954	9,102	9,250	9,398	9,546	9,694	9,842
38		8,512	8,662	8,812	8,962	9,112	9,262	9,412	9,562	9,712	9,862	10,012
39			8,814	8,966	9,118	9,270	9,422	9,574	9,726	9,878	10,030	10,182
40				9,120	9,274	9,428	9,582	9,736	9,890	10,044	10,198	10,352
41					9,430	9,586	9,742	9,898	10,054	10,210	10,366	10,522
42						9,744	9,902	10,060	10,218	10,376	10,534	10,692
43							10,062	10,222	10,382	10,542	10,702	10,862
44								10,384	10,546	10,708	10,870	11,032
45									10,710	10,874	11,038	11,202
46										11,040	11,206	11,372
47											11,374	11,542
48												11,712





INCHES →	38	39	40	41	42	43	44	45	46	47	48
38	8,664	8,816	8,968	9,120	9,272	9,424	9,576	9,728	9,880	10,032	10,184
39		8,970	9,124	9,278	9,432	9,586	9,740	9,894	10,048	10,202	10,356
40			9,280	9,436	9,592	9,748	9,904	10,060	10,216	10,372	10,528
41				9,594	9,752	9,910	10,068	10,226	10,384	10,542	10,700
42					9,912	10,072	10,232	10,392	10,552	10,712	10,872
43						10,234	10,396	10,558	10,720	10,882	11,044
44							10,560	10,724	10,888	11,052	11,216
45								10,890	11,056	11,222	11,388
46									11,224	11,392	11,560
47										11,562	11,732
48											11,904



INCHES →	39	40	41	42	43	44	45	46	47	48
39	9,126	9,282	9,438	9,594	9,750	9,906	10,062	10,218	10,374	10,530
40		9,440	9,598	9,756	9,914	10,072	10,230	10,388	10,546	10,704
41			9,758	9,918	10,078	10,238	10,398	10,558	10,718	10,878
42				10,080	10,242	10,404	10,566	10,728	10,890	11,052
43					10,406	10,570	10,734	10,898	11,062	11,226
44						10,736	10,902	11,068	11,234	11,400
45							11,070	11,238	11,406	11,574
46								11,408	11,578	11,748
47									11,750	11,922
48										12,096



INCHES →	40	41	42	43	44	45	46	47	48
↓									
40	9,600	9,760	9,920	10,080	10,240	10,400	10,560	10,720	10,880
41		9,922	10,084	10,246	10,408	10,570	10,732	10,894	11,056
42			10,248	10,412	10,576	10,740	10,904	11,068	11,232
43				10,578	10,744	10,910	11,076	11,242	11,408
44					10,912	11,080	11,248	11,416	11,584
45						11,250	11,420	11,590	11,760
46							11,592	11,764	11,936
47								11,938	12,112
48									12,288





INCHES → 41	42	43	44	45	46	47	48	
41	10,086	10,250	10,414	10,578	10,742	10,906	11,070	11,234
42		10,416	10,582	10,748	10,914	11,080	11,246	11,412
43			10,750	10,918	11,086	11,254	11,422	11,590
44				11,088	11,258	11,428	11,598	11,768
45					11,430	11,602	11,774	11,946
46						11,776	11,950	12,124
47							12,126	12,302
48								12,480

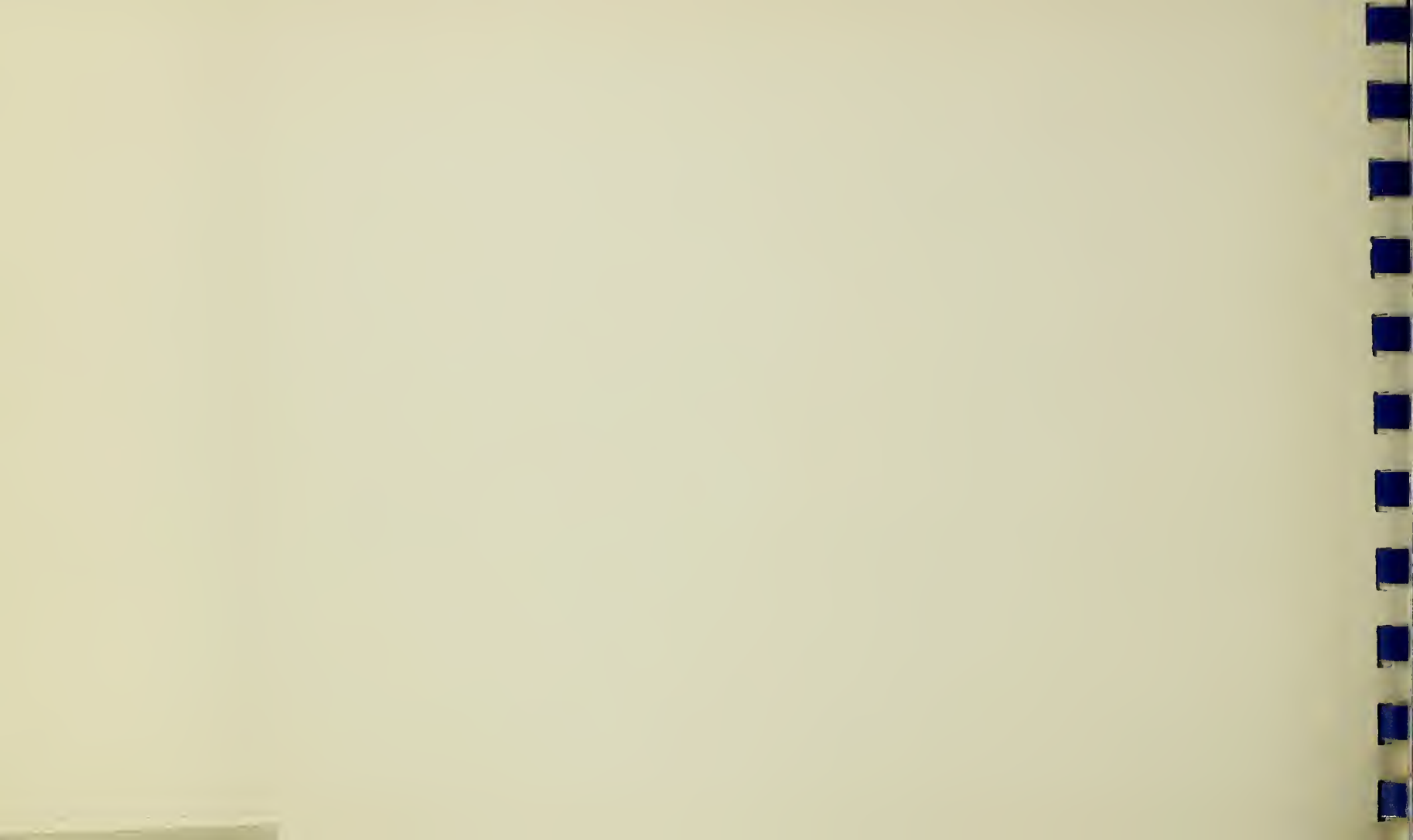


INCHES →	42	43	44	45	46	47	48
↓							
42	10,584	10,752	10,920	11,088	11,256	11,424	11,592
43		10,922	11,092	11,262	11,432	11,602	11,772
44			11,264	11,436	11,608	11,780	11,952
45				11,610	11,784	11,958	12,132
46					11,960	12,136	12,312
47						12,314	12,492
48							12,672



INCHES →	43	44	45	46	47	48
↓						
43	: 11,094	: 11,266	: 11,438	: 11,610	: 11,782	: 11,954
44	:	: 11,440	: 11,614	: 11,788	: 11,962	: 12,136
45	:	:	: 11,790	: 11,966	: 12,142	: 12,318
46	:			: 12,144	: 12,322	: 12,500
47	:			:	: 12,502	: 12,682
48	:				:	: 12,864





INCHES →	44	:	45	:	46	:	47	:	48	
↓	:	:	:	:	:	:	:	:	:	
44	:	11,616	:	11,792	:	11,968	:	12,144	:	12,320
45	:	:	:	11,970	:	12,148	:	12,326	:	12,504
46	:	:	:	:	:	12,328	:	12,508	:	12,688
47	:	:	:	:	:	:	:	12,690	:	12,872
48	:	:	:	:	:	:	:	:	:	13,056



INCHES →	45	:	46	:	47	:	48	
↓	:	:	:	:	:	:	:	
45	:	12,150	:	12,330	:	12,510	:	12,690
	:	:	:	:	:	:	:	:
46	:	:	:	12,512	:	12,694	:	12,876
	:	:	:	:	:	:	:	:
47	:	:	:	:	:	12,878	:	13,062
	:	:	:	:	:	:	:	:
48	:	:	:	:	:	:	:	13,248



INCHES	46	47	48
46	12,696	12,880	13,064
47		13,066	13,252
48			13,440





<hr/>		
INCHES →	:	:
47	:	48
<hr/>		
↓	:	:
47	:	13,254 : 13,442
	:	:
48	:	: 13,632
<hr/>		



$$\begin{array}{rcl}
 & : & \\
 \text{INCHES} & \rightarrow & 48 \\
 \downarrow & : & \\
 48 & : & 13,824
 \end{array}$$







